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STATISTICAL YEARBOOK

OF THE ELECTRIC UTILITY INDUSTRY/1983

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PUBLICATIONS PREPARED BY THE STATISTICS DEPARTMENT

Catalogue of Investor-Owned Electric Utility Companies Operating in the United States.
Complete reference of investor-owned company names and addresses, arranged on a state basis according to location of principal office. Holding companies and systems, and jointly-owned companies are cross-referenced with operating subsidiaries. Ranking of companies according to number of ultimate customers is presented. Published annually in the winter. 50p.

Data Tape of Tables Contained in the Statistical Yearbook.
The reel of magnetic tape (standard label, 6250 BPI, EBCDIC) contains 72 files corresponding to all of the tables printed in the hard-copy version of the Statistical Yearbook. Each file is identified by a data set name in the form: TABLEnn. Documentation is provided showing positional layouts of the data elements in each file. The incorporation of this tape into a data base will facilitate the retrieval and manipulation of series dealing with most aspects of the electric utility industry.

Digest of Utility Financial Ratios.
Provides a method of calculating approximately 100 ratios used by the utility industry in analyzing financial reports. Categories of ratios include Earnings and Return; Common Dividend; Coverages, Interest and Preferred Dividend; Balance Sheet; Revenue and Sales; Expense; Tax; Plant; Depreciation; other ratios, such as funds used during construction as percent of earnings and per share, capital expenditures, etc. Prepared by EEI Financial Ratios Subcommittee of the Statistical Committee. 28p.

EEI Pocketbook of Electric Utility Industry Statistics.
A pocket-sized quick reference of national electric industry date; some dating from 1902 to the present. Categories include data on installed capacity and generation; capital and finance; sales, revenue and customers; fuels; private and public ownership. Published annually in late fall. 37p.

Electric Power Annual Report.
Replaces and combines the Year-End and the Annual Electric Power Surveys. Historical and projected data are presented concerning the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment in the U.S. as of the end of the year. Power supply data including peak loads, capability to meet loads, kilowatthour requirements, load factors, and comparison between summer and winter seasons are shown on a total industry basis for each of the nine reliability councils and for total contiguous U.S. Also included are orders and shipment information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems. Published annually in the summer. 44p.

Glossary of Electric Utility Terms.
Defines the principal statistical reporting terms commonly used in the electric utility industry. Since the last revision in 1970 the Glossary has been expanded to include information and terms on Load Management/Rate Design, Nuclear Generation and additional terms on financial and general operations. This edition is more than double the size of the previous Glossary. Prepared by the EEI Glossary of Electric Terms Subcommittee of the Statistical Committee. For convenience and to encourage greater use of the Glossary it will also be printed in pocket-size format. Will be available in December.

Guidelines for Defining and Classifying Electric Customers By Major Energy Use.
Provides guidelines within the electric utility industry for counting, classifying, and summarizing customers, categorizing sales and revenues by major energy use, and determining average use and average revenue per customer. The report contains definitions as well as the application of the definitions to specific situations and problem areas. Historically, the industry has based its classifications on rate schedules and it is probable that the recommendations in this report are unsuitable for rate analysis. However, the recommendations are offered as a basis for making a more significant market-oriented representation of sales statistics available to the industry, security analysts, and others with interest in electric utilities. 16p.

Post-Summer Electric Power Survey.
Reports results of a scheduled generating additions survey as of July 1, and a summer peak load survey as of September 15. Contains first actual regional capability, peak load, and percent capacity margin values for the summer season just completed. Also includes information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems, orders and shipments during the first half of the year and backlogs as of July 1. The presentation of NERC fuel projections has been transferred to this report from the discontinued April issue. Published near the end of each year. 40p.

Problems and Limitations of Intercompany Comparisons of Investor-Owned Electric Utilities.
Assists analysts and others who may wish to make industry-wide comparisons of investor-owned electric utilities. The report illustrates some of the main factors that can facilitate valid intercompany differences in performances. The Executive Summary briefly examines some of the more important factors that lead to performance differences between companies. The Discussion Section covers in greater detail many of the factors that can generate invalid and inaccurate comparisons. Prepared by EEI Problems and Limitations Subcommittee of the Statistical Committee. 51p.

Statistical Releases.
Yearly subscription includes: 1) Electric Output, issued weekly for nine geographic divisions and total U.S., data for latest 52-week period and calendar year to date; latest quarterly data for installed capacity generation and customer and sales information 2) Source and Disposition, issued quarterly, presents latest sources of electricity, including net generation, net imports of electricity, and net amounts available for distribution; customers, sales, and revenues by class of electric service; average use and revenue data for residential service 3) Advance Release, issued in summer, includes selected tables that appear later in Statistical Yearbook 4) Statistical Yearbook of the Electric Utility Industry.

Statistical Yearbook of the Electric Utility Industry.
Data compiled from company reports, and other sources, on operational and financial aspects of the total electric utility industry. Categories include national and state statistics on installed capacity; electric generation and supply; sales, revenue and customers by class of service; investor-owned data are presented for operating and related ratios; fuel use; financial; and general economics series. Prepared under the general guidance of the EEI Statistical Committee; published annually in the fall. 97p.

Statistics on Fuel Used To Generate Electricity By The Electric Utility Industry.
In this reformatted and renamed report, fuel data are presented for the United States by state and Census Division, detailed by type of fuel (coal, oil, natural gas and nuclear) for both the Total Electric Utility Industry and the Investor-Owned segment. Units consumed, fuel cost in cents per kilowatthour, generation, heat rate and average Btu content are shown for the most recent and four preceding years. Published annually in late summer. 50p. Will be available in December.

Order card located in back of book.

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Scope and Coverage

This publication presents data on the electric utility industry, including generation, energy sales, customers and revenues, financial and economic. These data are collected and compiled from various sources as indicated on page 3. In all sections, except the Financial Section, data are presented for Investor-owned Electric Utilities and the Total Electric Utility Industry. Dissimilarity between the investor-owned and the publicly-owned segments of the electric utility industry would make overall financial data incompatible even if it were available. Therefore, in the Financial Section, data are shown for Investor-owned Electric Utilities only.

1983 in Review

The installed generating capacity of the electric utility industry for December 31, 1983, was 658,182 megawatts, an increase of 1.2 percent over December 31, 1982.

No. of units added during 1983

Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
22	19	3	1

Statistics on capacity and generation from pumped storage are included in hydroelectric and those for gas turbine are included in conventional steam.

The electric utility industry on the tenth anniversary of the oil embargo continued to reduce its dependency on foreign oil for generating electricity. A comparison between 1983 and 1982 presents the following information:

- Generation of electricity in the United States increased about 3.1 percent.
- Generation by oil decreased to 7.3 percent from 7.6 percent of thermal generation.
- Generation by hydroelectric power increased 7.4 percent and helped reduce the industry's utilization of natural gas. Generation by natural gas decreased to 13.9 percent from 15.8 percent of thermal generation.
- Generation by coal increased from 61.9 percent to 63.9 percent and generation by nuclear power plants increased from 14.7 percent to 14.9 percent of total thermal generation. Nuclear is surpassed only by coal as a fuel for our nation's essential electric power supply.

Electric output, representing the total amount of electricity available for distribution, during 1983 was 3.6 percent higher than in 1982. Most of this increase was the result of a combination of weather and economic factors during the last half of the year. A much warmer than normal summer along with a colder than normal December, combined with economic growth, reversed the electric output decline of the previous year. The midwest and southeast regions showed significant increases in the consumption of electricity based on increased business activity, coupled with harsher weather conditions.

The heat of the summer produced the highest electric output with the week ending July 23rd showing an electric output record of 53.6 billion kilowatthours. The extreme cold during the last half of December led to the highest December output of 216 billion kilowatthours. The peak load for the nation increased 7.9 percent in 1983, thus reducing the U.S. capacity margin to 25 percent.

Energy sales to ultimate customers totalled 2,157,598 million kilowatthours, an increase of approximately 2.8 percent over the previous year. The sales increase resulted from record weather conditions for both summer and winter, a 1.9 percent increase in the number of December 31 customers and the strong economic recovery during the year. The 1983 seasonally adjusted Federal Reserve Board Index of Production (less the electricity component) increased 6.7 percent from 1982.

Total utility revenues from ultimate customers were $129.6 billion in 1983, an increase of 6.6 percent over the previous year, resulting mainly from rate increases granted during the current and past years coupled with an overall increase in sales. Residential revenues were up 8.6 percent, there was an 8.6 percent increase in revenues from commmercial customers and 1.8 percent rise in industrial revenues.

The total number of ultimate customers as of December 31, 1983, was 97,106,355. Approximately 88.5 percent of this total were residential customers. In 1983 residential customers increased 1.8 percent from 1982. This increase can be partially attributed to a 35.4 percent increase in the number of new residential homes completed (including mobile homes shipped) in 1983.

During 1983 electric operating revenues increased 7.6 percent to $109.4 billion. Contributing to the increase in revenues were economic recovery and growth, increased sales, harsher weather conditions and rate increases granted during 1982 and 1983. Electric operating expenses increased 6.4 percent to over $88.0 billion. The cost of fuel represented 57.5 percent of total operation and maintenance expenses, down from 59.8 percent in 1982. Electric operating income of $20.7 billion was 18.9 percent of total operating revenues.

In 1983 construction expenditures for the investor-owned electric utilities totalled $35.6 billion, including nuclear fuel. Of this total, $7.8 billion was the allowance for funds used during construction (AFUDC), a non-cash item of current income which is added to the plant account for future collection.

Total interest charges aggregated $13.7 billion up 5.2 percent over 1982. The cost of new long-term debt issued during 1983 has been estimated to be about 12.9 percent.

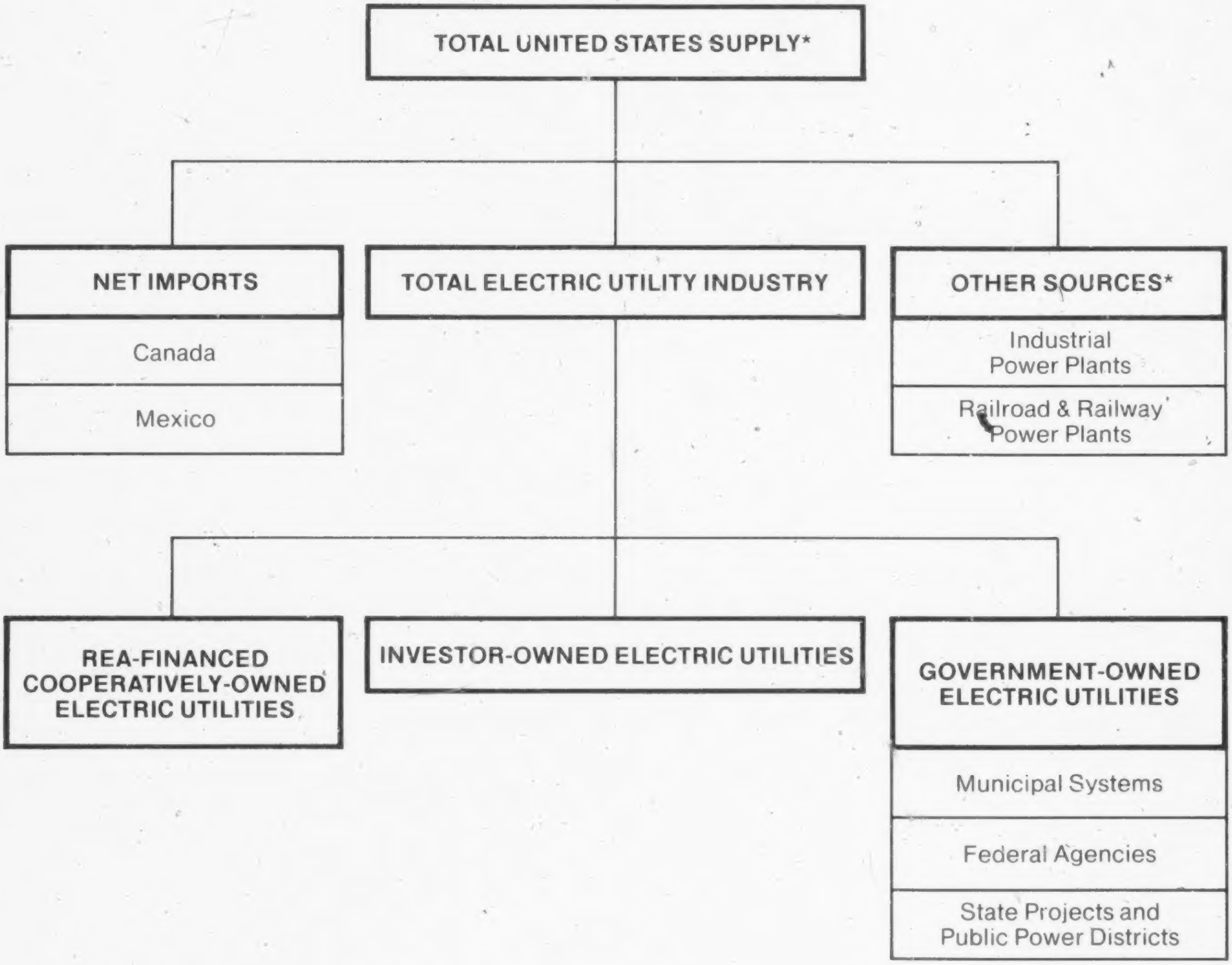
Since 1973 long-term debt as a percentage of total capitalization has gradually declined from 53.0 to 48.4 percent in 1983. Correspondingly, common capital stock equity increased from 35.0 to 40.8 percent by year-end 1983.

The average common stock dividend payout ratio was 69 percent in 1983. Ten years ago it was 65 percent.

The earned return on average common equity increased to 14.4 percent from 13.6 percent in 1982. However, the average rate of return for rate cases decided in 1983 by state commissions was estimated at 15.4 percent. During 1983, the investor-owned electric utilities were granted a total of $5,373 million in rate increases on an annualized basis. This is 29.6 percent below the $7,629 million granted in 1982. AFUDC as a percentage of net income after preferred dividends and before common dividends was 53.7 percent.

In 1983 the investor-owned electric utilities raised $11.8 billion in new long-term financing, a 23.9 percent decrease from 1982. Of this total, 57.8 percent was long-term debt, 26.1 percent was common stock and the remaining 16.1 percent was preferred stock. Additionally, the industry raised an estimated $2.9 billion in new equity capital as a result of participation by stockholders in dividend reinvestment plans. This is a 32 percent increase above the $2.2 billion raised in 1982. The new equity capital included not only dividend reinvestment, but also supplementary cash contributions by the stockholders.

UNITED STATES SOURCES OF ELECTRIC GENERATION BY TYPE OF OWNERSHIP


TOTAL UNITED STATES SUPPLY*
NET IMPORTS
Canada
Mexico
TOTAL ELECTRIC UTILITY INDUSTRY
OTHER SOURCES*
Industrial Power Plants
Railroad & Railway Power Plants
REA-FINANCED COOPERATIVELY-OWNED ELECTRIC UTILITIES
INVESTOR-OWNED ELECTRIC UTILITIES
GOVERNMENT-OWNED ELECTRIC UTILITIES
Municipal Systems
Federal Agencies
State Projects and Public Power Districts

** Does not include generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.*

	Total Electric Utility Industry			
			Change	
	1983	1982	Amount	Percent
GENERATING CAPACITY—SECTION I (kW in Thousands)				
Installed Name Plate at Beginning of Year	650,105	634,808	15,297	2.4
Added During Year	...	...	...	...
Retired During Year	...	...	...	...
Net Adjustments*	...	...	...	...
Balance at December 31	658,182	650,105	8,077	1.2
ELECTRIC POWER SUPPLY—SECTION II (kW in Thousands)				
Capability at Time of Summer Peak Load (Contiguous U.S.)	596,449	586,142r	10,307	1.8
Non-Coincident Summer Peak Load (Contiguous U.S.)	447,526	414,909	32,617	7.9
Capacity Margin (Contiguous U.S.)	25.0%	29.2%r		
GENERATION—SECTION III (kWh in Millions)				
Hydro	332,130	309,213	22,917	7.4
Conventional Steam	1,682,268	1,646,883	35,385	2.1
Nuclear Steam	293,677	282,773	10,904	3.9
Internal Combustion	2,207	2,343	(136)	(5.8)
Total Generation	2,310,285**	2,241,211	69,074	3.1
Purchases from Industrial Sources	12,760	12,004r	756	6.3
Imports from Canada and Mexico	38,668	34,284	4,384	12.8
Total Energy Input†	2,361,713**	2,287,499r	74,212	3.2
FUEL—SECTION IV				
Average Cost of Fuel per net kWh	2.39¢p	2.46¢	(0.07)¢	(2.8)
Lbs. of Coal per Net kWh Generated	0.993	0.996	(0.003)	(0.3)
Average Btu per Net kWh Generated	10,539	10,517	22	0.2
ENERGY—SECTION V (BTUs in Quadrillion)				
Annual Production of Energy	61.02p	63.85r	(2.83)	(4.4)
Total Energy Supply & Disposition	74.18p	75.45r	(1.27)	(1.7)
ENERGY SALES—SECTION VI (kWh in Millions)				
Residential	750,850p	732,678r	18,172	2.5
Commercial	546,252p	516,959r	29,293	5.7
Industrial	780,020p	770,398r	9,622	1.2
Street and Highway Lighting	14,052p	14,236r	(184)	(1.3)
Other	66,423p	65,471r	952	1.5
Total Sales to Ultimate Customers	2,157,598p	2,099,741r	57,857	2.8
Exports to Canada and Mexico	3,337	3,540	(203)	5.7
Energy Accounted for but Not Sold	12,141p	14,590r	(2,449)	(16.8)
Lost and Unaccounted for	188,637p	169,628r	19,009	11.2
Total Disposition of Energy†	2,361,713p	2,287,499r	74,214	3.2
kWh Used per Customer (Average for Year)				
Residential	8,827p	8,743r	84	1.0
Commercial	53,592p	52,260r	1,332	2.5
Total Ultimate Customer	22,446p	22,197r	249	1.1
CUSTOMERS AT YEAR END—SECTION VII (Thousands)				
Residential	85,914p	84,372r	1,542	1.8
Commercial	10,315p	9,976r	339	3.4
Industrial	500p	534r	(34)	(6.4)
Street and Highway Lighting	154p	149r	5	3.4
Other	223p	220r	3	1.4
Total Ultimate Customers	97,106p	95,250r	1,856	1.9
REVENUES—SECTION VIII (Millions of Dollars)				
Residential	$ 51,261p	$ 47,188r	$ 4,073	8.6
Commercial	37,090p	34,151r	2,939	8.6
Industrial	36,526p	35,882r	644	1.8
Street and Highway Lighting	1,323p	1,254r	69	5.5
Other	3,358p	3,109r	249	8.0
Total Revenues from Ultimate Customers	$ 129,558p	$ 121,584r	$ 7,974	6.6
Exports to Canada and Mexico	8	13	(5)	(38.5)
Total Revenues from Sales of Energy	$ 129,566p	$ 121,597r	$ 7,969	6.6
Average Annual Revenue per Customer:				
Residential	$ 602.65p	$ 563.09r	$ 39.56	7.0
Commercial	$3,638.84p	$3,452.36r	$186.48	5.4
Total Ultimate Customers	$1,347.81p	$1,285.29r	$ 62.52	4.9
Average Revenue per kWh:				
Residential	6.83¢p	6.44¢r	0.39¢	6.1
Commercial	6.79¢p	6.61¢r	0.18¢	2.7
Total Ultimate Customer	6.00¢p	5.79¢r	0.21¢	3.6
ECONOMICS & OTHER—SECTION X				
Miles of Overhead Electric Line, 22 kV and Above	590,593	579,522r	11,071	1.9
Employees of Investor-Owned Electric Utilities	513,200	505,100	8,100	1.6
Plant Ratio-kWh Generated/kW of Capacity‡	3,532	3,489	43	1.2

Note: Total may not equal sum of components due to indepent rounding.

**Represents reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.*

***Generation by wind included in total—2.7 kilowatt hours in million.*

†Excludes industrial for own use. ‡On basis of installed name plate capacity.

p Preliminary. r Revised. ( ) Denotes negative figure.

FINANCIAL—SECTION IX (Millions of Dollars)	Investor-Owned Electric Utilities			
			Change	
	1983	1982	Amount	Percent
COMBINED BALANCE SHEETS:				
ASSETS				
Utility Plant:				
Electric	$343,600	$319,723	$23,877	7.5
Accumulated Provision for Depreciation and Amortization	70,527	64,552	5,975	9.3
Net Electric Utility Plant	273,073	255,171	17,902	7.0
Nuclear Fuel	9,421	8,056	1,365	16.9
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	3,755	3,591	164	4.6
Net Nuclear Fuel	5,665	4,465	1,200	26.9
Net Total Electric Utility Plant	278,738	259,636	19,102	7.4
Other	20,058	17,084	2,974	17.4
Accumulated Provision for Depreciation and Amortization	6,546	5,462	1,084	19.8
Net Other Utility Plant	13,513	11,622	1,891	16.3
Total Utility Plant	373,078	344,862	28,216	8.2
Accumulated Provision for Depreciation and Amortization	80,828	73,605	7,223	9.8
Net Total Utility Plant Including Nuclear Fuel	292,250	271,258	20,992	7.7
Other Property and Investment	8,367	6,656	1,711	25.7
Total Current and Accrued Assets	33,196	31,799	1,397	4.4
Total Deferred Debits	12,001	7,486	4,515	60.3
Total Assets	$345,814	$317,198	$28,616	9.0
LIABILITIES				
Capitalization:				
Common Capital Stock	$ 44,742	$ 40,491	$ 4,251	10.5
Other Paid-In Capital Excluding Retained Earnings	31,580	27,305	4,275	15.7
Retained Earnings	35,369	30,984	4,385	14.2
Total Common Capital Stock Equity	111,691	98,779	12,912	13.1
Preferred Stock	29,479	28,616	863	3.0
Total Long-Term Debt	132,278	123,692	8,586	6.9
Total Capitalization	273,448	251,088	22,360	8.9
Total Current and Accrued Liabilities	33,898	33,356	542	1.6
Total Deferred Credits and Operating Reserves	17,258	14,317	2,941	20.5
Contributions in Aid of Construction	135	127	8	6.3
Deferred Income Taxes	21,075	18,310	2,765	15.1
Total Liabilities	$345,814	$317,198	$28,616	9.0
COMBINED INCOME STATEMENTS:				
Operating Revenues—Electric Department	$109,446	$101,693	$ 7,753	7.6
Operating Expenses Including Maintenance	62,892	61,242	1,650	2.7
Depreciation, Depletion and Amortization	8,370	7,588	782	10.3
Taxes	17,523	14,604	2,919	20.0
Total Operating Expenses	88,788	83,435	5,353	6.4
Operating Income	20,658	18,258	2,400	13.1
Other Income (Non-Operating), Net	6,716	5,720	996	17.4
Other Departments	1,091	1,113	(22)	(2.0)
Income before Interest Charges (Gross Income)	28,466	25,091	3,375	13.5
Total Interest Charges	10,649	10,066	583	5.8
Income before Extraordinary Items	17,816	15,025	2,791	18.6
Extraordinary Items	(228)	121	(349)	NA
Net Income	17,589	15,146	2,443	16.1
Preferred Dividend Charges	2,715	2,502	213	8.5
Available for Common Stock	14,874	12,643	2,231	17.6
Common Dividends	10,306	8,968	1,338	14.9
Net Income After Dividends	$ 4,568	$ 3,676	$ 892	24.3
Electric Utility Financing:				
Long-Term Debt	$ 7,583	$ 9,224	$ (1,641)	(17.8)
Preferred Stock	1,903	2,137	(234)	(10.9)
Common Stock	3,083	5,025	(1,942)	(38.6)
Total Capital	$ 12,568	$ 16,386	$ (3,818)	(23.3)
Construction Expenditures				
Production	$ 24,935	$ 25,339	$ (404)	(1.6)
Transmission	2,371	2,203	168	7.6
Distribution	5,021	4,827	194	4.0
Other	3,238	2,981	257	8.6
Total	$ 35,565	$ 35,350	$ 215	0.6

Note: Total may not equal sum of components due to independent rounding.
( ) Denotes negative figure.   NA Not Applicable.

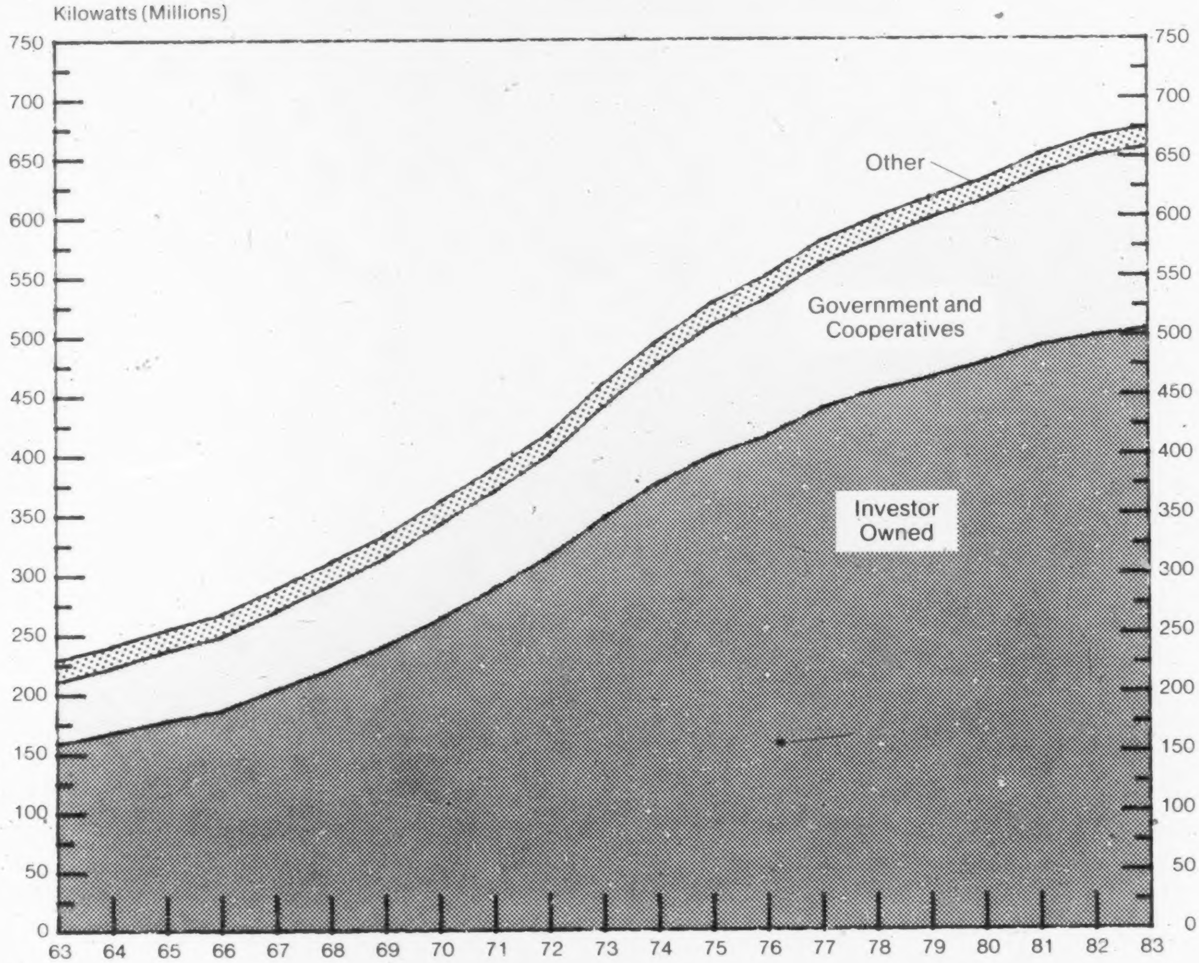
GENERATING CAPACITY

SECTION I

CHART I-A

INSTALLED GENERATING CAPACITY

TOTAL UNITED STATES



Based on Table 1, page 7.
Source: Energy Information Administration, Form 759.

TABLE 1

INSTALLED GENERATING CAPACITY IN THE UNITED STATES

KILOWATTS IN THOUSANDS (NAME PLATE)

December 31st	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States
1983	**505,487**	**152,695**	**658,182**	**16,765e**	**674,947**
1982	499,111	150,994	650,105	16,938e	667,043
1981	490,767	144,041	634,808	17,142e	651,950
1980	477,083	136,612	613,695	17,323e	631,018
1979	464,144	134,299	598,443	17,436	615,879
1978	453,647	125,665	579,312	19,391	598,703
1977	438,385	121,976	560,361	19,245	579,606
1976	415,504	115,658	531,162	19,113	550,275
1975	399,036	109,378	508,414	19,177	527,591
1974	376,122	100,046	476,168	19,351	495,519
1973	346,476	93,399	439,875	19,377	459,252
1972	314,353	84,400	398,753	18,768	417,521
1971	288,301	80,779	369,080	19,297	388,377
1970	262,675	78,415	341,090	19,237	360,327
1969	240,078	73,271	313,349	19,257	332,606
1968	220,766	70,292	291,058	19,123	310,181
1967	203,580	65,672	269,252	18,933	288,185
1966	185,671	62,172	247,843	18,973	266,816
1965	177,570	58,557	236,127	18,393	254,520
1964	167,704	54,581	222,285	18,186	240,471
1963	158,448	52,101	210,549	18,208	228,757

Note: Total may not equal sum of components due to independent rounding.

** Includes capacity of industrial, mine and railway electric power plants. Does not include the capacity of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.*

e Estimated by EEI.

Source: Energy Information Administration, Form 759.

TABLE 2

INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	Total Electric Utility Industry*	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Capacity of Generators Driven by All Types of Prime Mover)							
1983	**658.182**	**505.487**	**22.202**	**130.493**	**36.598**	**62.973**	**30.923**
1982	650,105	499,111	21,463	129,530	35,819	62,544	31,168
1981	634,808	490,767	18,406	125,635	35,125	60,982	29,527
1980	613,695	477,083	15,422	121,190	34,598	59,083	27,509
1979	598,443	464,144	13,837	120,462	34,525	58,346	27,591
1978	579,312	453,647	11,635	114,030	34,426	54,282	25,322
1977	560,361	438,385	10,889	111,087	33,291	53,183	24,613
1976	531,162	415,504	9,947	105,711	30,602	51,707	23,402
1975	508,414	399,036	9,136	100,242	28,787	50,133	21,322
1974	476,168	376,122	7,474	92,572	27,324	45,518	19,730
1973	439,875	346,476	7,288	86,111	24,956	44,520	16,635
1972	398,753	314,353	6,704	77,696	23,049	40,408	14,239
1971	369,080	288,301	5,470	75,309	21,992	39,656	13,661
1970	341,090	262,675	5,162	73,253	20,941	38,718	13,594
1969	313,349	240,078	4,318	68,953	20,035	36,130	12,788
1968	291,058	220,766	3,434	66,858	19,429	34,956	12,473
1967	269,252	203,580	3,019	62,653	18,049	33,640	10,964
1966	247,843	185,671	2,758	59,414	16,548	32,608	10,258
1965	236,127	177,570	2,309	56,248	15,407	31,690	9,151
1964	222,285	167,704	2,017	52,564	15,199	28,343	9,022
1963	210,549	158,448	1,873	50,228	14,222	27,315	8,691
HYDRO (Capacity of Generators Driven by Water Wheels and Turbines)							
1983	**78,968**	**24,977**	**81**	**53,910**	**4,781**	**36,803**	**12,326**
1982	78,128	24,584	81	53,464	4,729	36,378	12,357
1981	77,145	24,319	67	52,759	4,686	35,891	12,182
1980	76,378	24,227	67	52,084	4,692	35,212	12,180
1979	75,351	23,916	67	51,368	4,693	34,495	12,180
1978	71,014	23,847	67	47,100	4,694	30,431	11,975
1977	68,762	23,158	67	45,537	4,431	29,332	11,774
1976	67,757	23,134	67	44,556	4,010	29,031	11,515
1975	65,949	23,115	67	42,767	3,760	27,480	11,527
1974	63,560	22,737	54	40,769	3,814	25,447	11,508
1973	61,782	21,770	56	39,956	3,334	25,582	11,040
1972	56,386	19,122	54	37,210	3,330	24,336	9,544
1971	55,912	19,076	54	36,782	3,260	24,056	9,466
1970	55,056	18,850	56	36,150	3,195	23,499	9,456
1969	52,753	18,444	56	34,253	3,195	22,054	9,004
1968	51,168	18,337	57	32,774	3,177	20,905	8,692
1967	48,112	18,134	57	29,921	2,623	19,589	7,709
1966	44,977	16,381	57	28,539	2,005	19,531	7,003
1965	43,782	16,096	58	27,628	2,005	18,717	6,906
1964	42,188	15,296	58	26,834	1,979	17,947	6,908
1963	40,214	14,620	58	25,536	1,982	16,923	6,631
CONVENTIONAL STEAM (Capacity of Generators Driven by Steam Engines and Turbines)							
1983	**507,136**	**422,944**	**21,767**	**62,424**	**27,737**	**20,244**	**14,444**
1982	503,804	420,863	21,011	61,930	27,026	20,246	14,658
1981	491,287	413,571	17,939	59,778	26,199	20,392	13,187
1980	475,276	403,031	14,954	57,291	25,697	20,393	11,201
1979	462,999	392,349	13,375	57,275	25,599	20,378	11,298
1978	449,231	383,024	11,073	55,134	25,511	20,378	9,245
1977	436,426	371,976	10,429	54,021	24,590	20,378	9,053
1976	415,181	355,263	9,061	50,857	22,396	20,355	8,106
1975	397,649	340,907	8,264	48,478	20,843	20,332	7,303
1974	375,940	323,490	7,017	45,433	20,395	18,899	6,139
1973	352,072	303,536	6,836	41,700	18,511	18,917	4,272
1972	322,201	279,129	6,254	36,818	16,895	16,052	3,871
1971	299,996	260,016	5,018	34,962	16,026	15,576	3,360
1970	275,191	236,792	4,761	33,638	15,141	15,194	3,303
1969	252,411	217,196	3,925	31,290	14,291	14,051	2,948
1968	233,095	199,285	3,031	30,779	13,807	14,026	2,946
1967	214,435	182,340	2,608	29,487	13,046	14,026	2,415
1966	197,415	167,370	2,348	27,697	12,230	13,052	2,415
1965	188,054	159,800	1,902	26,352	11,197	12,948	2,207
1964	175,871	150,753	1,617	23,501	11,056	10,371	2,074
1963	166,229	142,235	1,477	22,517	10,120	10,367	2,030

See page 9 for footnotes.

TABLE 2 (continued)

INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	Total Electric Utility Industry*	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Capacity of Generators Driven by Nuclear Reactors)							
1983	**67.073**	**56,069**	**50**	**10.954**	**963**	**5.897**	**4.094**
1982	63,042	52,038	50	10,954	963	5,897	4,094
1981	60,776	50,992	50	9,734	963	4,677	4,094
1980	56,488	47,960	50	8,478	963	3,456	4,059
1979	54,593	46,065	50	8,478	963	3,456	4,059
1978	53,527	44,984	65	8,478	963	3,456	4,059
1977	49,880	41,654	55	8,171	963	3,456	3,752
1976	42,918	35,419	480	7,019	963	2,304	3,752
1975	39,754	33,539	480	5,735	963	2,304	2,468
1974	31,662	28,397	55	3,210	—	1,152	2,058
1973	21,118	19,766	53	1,299	—	—	1,299
1972	15,302	14,449	53	800	—	—	800
1971	8,688	7,833	55	800	—	—	800
1970	6,493	5,693	—	800	—	—	800
1969	3,980	3,180	—	800	—	—	800
1968	2,817	2,017	—	800	—	—	800
1967	2,887	2,087	**	800**	**	—	800
1966	1,942	1,142**	**	800**	**	—	800
1965	926	926**	**	**	**	—	**
1964	906	906**	**	**	**	—	**
1963	861	861**	**	**	—	—	**
INTERNAL COMBUSTION (Capacity of Generators Driven by Internal Combustion Engines)							
1983	**4.996**	**1.494**	**304**	**3.198**	**3.117**	**22**	**58**
1982	5,131	1,627	321	3,182	3,101	22	60
1981	5,600	1,885	351	3,364	3,278	22	65
1980	5,553	1,865	351	3,337	3,246	22	69
1979	5,500	1,814	345	3,341	3,270	17	54
1978	5,540	1,792	430	3,318	3,258	17	43
1977	5,293	1,597	338	3,358	3,307	17	34
1976	5,306	1,688	339	3,279	3,233	17	29
1975	5,062	1,475	325	3,262	3,221	17	24
1974	5,006	1,498	348	3,160	3,115	20	25
1973	4,903	1,404	343	3,156	3,111	21	24
1972	4,864	1,653	343	2,868	2,824	20	24
1971	4,484	1,376	343	2,765	2,706	24	35
1970	4,350	1,340	345	2,665	2,605	25	35
1969	4,205	1,258	337	2,610	2,549	25	36
1968	3,978	1,127	346	2,505	2,445	25	35
1967	3,818	1,019	354	2,445	2,380	25	40
1966	3,509	778	353	2,378	2,313	25	40
1965	3,365	748	349	2,268	2,205	25	38
1964	3,320	749	342	2,229	2,164	25	40
1963	3,245	732	338	2,175	2,120	25	30

Note: Total may not equal sum of components due to independent rounding.

**Beginning 1983 wind turbine capacity included in total; Total Electric Utility Industry—9.3 kilowatts in thousands; Investor-Owned Utilities—2.8 kilowatts in thousands; Federal—6.5 kilowatts in thousands.*

***Generator capacity of the following plants is included in Conventional Steam:*
Piqua—Piqua Municipal Power Plant, Ohio
Elk River—Rural Cooperative Power Assoc., Minnesota
Sheldon—Consumer's Public Power District, Nebraska
Parr—South Carolina Electric & Gas Co., South Carolina
Source: Energy Information Administration, Form 759.

TABLE 3

INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1982 and 1983—KILOWATTS IN THOUSANDS (NAME PLATE)

	Total Electric Utility Industry*		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982
Total United States	**658,182**	**650,105**	**78,968**	**78,128**	**507,136**	**503,804**	**67,073**	**63,042**	**4,996**	**5,131**
Maine	2,392	2,385	370	362	1,104	1,104	864	864	54	54
New Hampshire	1,536	1,552	389	384	1,147	1,168	—	—	—	—
Vermont	945	943	198	196	164	164	563	563	20	20
Massachusetts	10,079	10,153	1,639	1,639	7,405	7,480	863	863	172	171
Rhode Island	270	284	2	2	243	256	—	—	26	26
Connecticut	6,113	6,113	132	133	3,789	3,789	2,172	2,172	20	20
New England	**21,336**	**21,430**	**2,730**	**2,716**	**13,852**	**13,961**	**4,462**	**4,462**	**292**	**291**
New York	31,902	31,804	4,998	4,970	22,725	22,655	4,068	4,068	111	111
New Jersey	13,783	13,783	389	389	10,501	10,501	2,890	2,890	2	2
Pennsylvania	34,826	33,674	1,649	1,649	26,894	26,894	6,211	5,059	72	72
Middle Atlantic	**80,511**	**79,260**	**7,036**	**7,008**	**60,119**	**60,050**	**13,169**	**12,017**	**186**	**186**
Ohio	27,777	27,809	50	26	26,659	26,705	962	962	106	117
Indiana	18,624	18,802	93	93	18,478	18,656	—	—	53	53
Illinois	30,976	30,993	27	27	23,783	23,823	6,888	6,865	278	278
Michigan	22,628	22,541	2,323	2,322	16,767	16,655	3,172	3,172	365	392
Wisconsin	10,770	11,051	400	399	8,650	8,926	1,633	1,633	87	94
East North Central	**110,775**	**111,196**	**2,894**	**2,867**	**94,338**	**94,764**	**12,655**	**12,631**	**889**	**933**
Minnesota	8,641	8,712	142	142	6,448	6,487	1,755	1,755	296	328
Iowa	8,719	7,955	130	130	7,592	6,809	597	597	400	419
Missouri	15,708	15,802	1,004	925	14,340	14,513	—	—	364	363
North Dakota	3,751	3,756	430	430	3,290	3,242	—	—	31	84
South Dakota	2,315	2,316	1,383	1,383	862	862	—	—	70	72
Nebraska	5,971	5,983	234	234	4,146	4,155	1,338	1,338	254	256
Kansas	9,587	8,528	2	2	9,047	7,992	—	—	538	534
West North Central	**54,693**	**53,053**	**3,326**	**3,247**	**45,725**	**44,060**	**3,690**	**3,690**	**1,953**	**2,057**
Delaware	2,032	2,032	—	—	2,022	2,022	—	—	11	11
Maryland	9,776	9,809	494	494	7,390	7,424	1,828	1,828	64	63
District of Columbia	868	868	—	—	868	868	—	—	—	—
Virginia	11,610	11,637	955	945	6,967	7,004	3,655	3,655	34	34
West Virginia	15,079	15,249	101	101	14,979	15,149	—	—	—	—
North Carolina	18,335	17,577	1,847	1,847	13,533	12,774	2,954	2,953	2	2
South Carolina	13,219	12,286	2,264	2,264	6,619	6,591	4,335	3,430	1	1
Georgia	17,517	17,437	2,031	1,951	13,781	13,781	1,700	1,700	5	5
Florida	31,881	31,027	30	30	27,448	27,477	4,110	3,260	293	259
South Atlantic	**120,318**	**117,922**	**7,720**	**7,630**	**93,606**	**93,091**	**18,582**	**16,826**	**409**	**375**
Kentucky	15,956	16,031	747	747	15,195	15,270	—	—	14	14
Tennessee	18,270	18,270	3,774	3,774	12,054	12,054	2,441	2,441	—	—
Alabama	19,211	19,068	2,743	2,600	11,235	11,235	5,233	5,233	—	—
Mississippi	6,122	6,122	—	—	6,122	6,122	—	—	—	—
East South Central	**59,558**	**59,490**	**7,264**	**7,121**	**44,607**	**44,682**	**7,674**	**7,674**	**14**	**14**
Arkansas	8,785	7,949	1,086	1,086	5,815	4,979	1,845	1,845	38	38
Louisiana	15,571	15,155	—	—	15,393	14,966	—	—	178	188
Oklahoma	12,401	12,457	968	965	11,299	11,362	—	—	135	130
Texas	57,443	57,557	581	515	56,661	56,828	—	—	201	214
West South Central	**94,200**	**93,117**	**2,635**	**2,567**	**39,168**	**88,135**	**1,845**	**1,845**	**552**	**570**
Montana	3,212	3,183	2,099	2,066	1,108	1,115	—	—	5	3
Idaho	2,027	2,002	1,969	1,944	50	50	—	—	8	8
Wyoming	5,846	5,838	234	232	5,591	5,591	—	—	15	15
Colorado	6,797	6,785	889	878	5,492	5,492	342	342	74	74
New Mexico	5,413	5,494	24	24	5,297	5,352	—	—	92	117
Arizona	10,862	10,862	2,113	2,113	8,746	8,746	—	—	4	4
Utah	3,034	2,579	205	197	2,794	2,347	—	—	34	34
Nevada	4,532	4,262	682	682	3,787	3,517	—	—	64	64
Mountain	**41,722**	**41,006**	**8,215**	**8,136**	**32,863**	**32,209**	**342**	**342**	**295**	**319**
Washington	21,795	21,530	18,891	18,677	2,040	1,989	860	860	4	4
Oregon	10,609	10,847	8,041	8,051	1,347	1,574	1,216	1,216	6	6
California	39,847	38,455	10,056	9,949	27,167	26,985	2,578	1,478	44	44
Pacific	**72,251**	**70,831**	**36,987**	**36,677**	**30,553**	**30,547**	**4,654**	**3,554**	**53**	**53**
Alaska	1,259	1,238	158	158	861	861	—	—	240	219
Hawaii	1,561	1,560	3	3	1,444	1,444	—	—	113	113
Alaska & Hawaii	**2,819**	**2,799**	**161**	**161**	**2,305**	**2,305**	**—**	**—**	**353**	**332**

Note: Total may not equal sum of components due to independent rounding.
**Beginning 1983, wind turbine capacity included in total—9 kW in thousands.*
Source: Energy Information Administration, Form 759.

TABLE 4

INSTALLED GENERATING CAPACITY INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1982 and 1983—KILOWATTS IN THOUSANDS (NAME PLATE)

	Total Electric Utility Industry†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982
Total United States	**505,487**	**499,111**	**24,977**	**24,584**	**422,944**	**420,863**	**56,069**	**52,038**	**1,494**	**1,627**
Maine	2,378	2,370	369	361	1,104	1,104	864	864	41	41
New Hampshire	1,536	1,552	389	384	1,147	1,168	—	—	—	—
Vermont	872	872	183	183	108	108	563	563	17	17
Massachusetts	9,132	9,193	1,628	1,628	6,536	6,597	863	863	104	105
Rhode Island	269	282	—	—	243	256	—	—	26	26
Connecticut	6,044	6,044	129	130	3,737	3,737	2,172	2,172	6	6
New England	**20,230**	**20,313**	**2,699**	**2,686**	**12,875**	**12,971**	**4,462**	**4,462**	**194**	**194**
New York	24,847	24,752	882	857	21,753	21,683	2,172	2,172	40	40
New Jersey	13,668	13,668	387	387	10,391	10,391	2,890	2,890	—	—
Pennsylvania	34,819	33,667	1,649	1,649	26,887	26,887	6,211	5,059	72	72
Middle Atlantic	**73,334**	**72,086**	**2,918**	**2,893**	**59,031**	**58,961**	**11,273**	**10,121**	**111**	**111**
Ohio	26,899	27,033	48	24	25,830	25,978	962	962	59	70
Indiana	17,176	17,354	93	93	17,050	17,228	—	—	32	32
Illinois	29,731	29,747	14	14	22,790	22,830	6,888	6,865	39	39
Michigan	21,024	21,052	2,288	2,288	15,404	15,404	3,172	3,172	160	188
Wisconsin	9,457	9,737	366	364	7,490	7,765	1,583	1,583	19	24
East North Central	**104,286**	**104,923**	**2,808**	**2,783**	**88,565**	**89,205**	**12,605**	**12,581**	**309**	**353**
Minnesota	7,643	7,709	139	139	5,741	5,777	1,755	1,755	9	39
Iowa	7,441	6,822	127	127	6,677	6,040	597	597	41	59
Missouri	11,258	11,519	596	596	10,582	10,843	—	—	80	80
North Dakota	628	633	—	—	622	574	—	—	6	60
South Dakota	803	804	*	*	742	742	—	—	61	62
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	7,182	6,442	2	2	7,155	6,415	—	—	25	25
West North Central	**34,956**	**33,928**	**863**	**863**	**31,518**	**30,389**	**2,352**	**2,352**	**223**	**324**
Delaware	1,851	1,851	—	—	1,850	1,850	—	—	1	1
Maryland	9,699	9,734	494	494	7,366	7,400	1,828	1,828	11	11
District of Columbia	868	868	—	—	868	868	—	—	—	—
Virginia	11,331	11,356	719	709	6,942	6,976	3,655	3,655	16	15
West Virginia	15,079	15,249	101	101	14,979	15,149	—	—	—	—
North Carolina	17,951	17,192	1,477	1,477	13,520	12,762	2,954	2,953	—	—
South Carolina	10,710	9,777	1,845	1,845	4,529	4,501	4,335	3,430	*	*
Georgia	16,242	16,242	773	774	13,764	13,764	1,700	1,700	5	5
Florida	26,234	25,442	*	*	22,092	22,150	4,110	3,260	31	31
South Atlantic	**109,965**	**107,710**	**5,410**	**5,400**	**85,909**	**85,420**	**18,582**	**16,826**	**64**	**64**
Kentucky	7,723	7,798	111	111	7,613	7,688	—	—	—	—
Tennessee	172	172	172	172	—	—	—	—	—	—
Alabama	10,117	9,974	1,485	1,342	6,856	6,856	1,777	1,777	—	—
Mississippi	5,348	5,348	—	—	5,348	5,343	—	—	—	—
East South Central	**23,361**	**23,292**	**1,767**	**1,624**	**19,817**	**19,891**	**1,777**	**1,777**	**—**	**—**
Arkansas	7,427	6,591	65	65	5,502	4,666	1,845	1,845	14	14
Louisiana	12,711	12,719	—	—	12,615	12,615	—	—	96	104
Oklahoma	9,717	9,724	—	—	9,683	9,691	—	—	34	33
Texas	46,902	47,128	10	10	46,853	47,079	—	—	39	39
West South Central	**76,756**	**76,161**	**75**	**75**	**74,654**	**74,051**	**1,845**	**1,845**	**182**	**190**
Montana	2,021	1,993	909	875	1,108	1,115	—	—	5	3
Idaho	1,367	1,355	1,312	1,300	50	50	—	—	5	6
Wyoming	3,894	3,894	*	*	3,880	3,880	—	—	14	14
Colorado	3,869	3,869	340	340	3,167	3,167	342	342	20	20
New Mexico	5,224	5,278	—	—	5,136	5,191	—	—	88	86
Arizona	3,567	3,567	7	7	3,556	3,556	—	—	4	4
Utah	2,850	2,401	65	62	2,780	2,333	—	—	5	5
Nevada	3,860	3,590	9	9	3,787	3,517	—	—	64	64
Mountain	**26,651**	**25,946**	**2,642**	**2,594**	**23,463**	**22,809**	**342**	**342**	**205**	**201**
Washington	2,978	2,927	965	965	2,010	1,959	—	—	3	3
Oregon	3,950	4,187	1,433	1,443	1,296	1,522	1,216	1,216	6	6
California	27,394	26,028	3,382	3,242	22,363	22,239	1,615	515	30	30
Pacific	**34,321**	**33,141**	**5,779**	**5,651**	**25,669**	**25,721**	**2,831**	**1,731**	**39**	**39**
Alaska	67	49	12	12	—	—	—	—	55	37
Hawaii	1,561	1,560	3	3	1,444	1,444	—	—	113	113
Alaska & Hawaii	**1,627**	**1,610**	**15**	**15**	**1,444**	**1,444**	**—**	**—**	**168**	**150**

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983, wind turbine capacity included in total—3 kW in thousands.

**Less than five hundred kilowatts.*

Source: Energy Information Administration, Form 759.

TABLE 5

CHANGES IN INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY*

BY TYPE OF PRIME MOVER DRIVING THE GENERATOR 1964-1983—KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	New Additions	Retirements	Adjustments**		Net Additions
			Plus	Minus	
1983‡					
Hydro	....	....	....	....	840
Steam	....	....	....	....	7,363
Internal Combustion	....	....	....	....	(135)
Total	....	....	....	....	8,077
1982‡					
Hydro	....	....	....	....	983
Steam	....	....	....	....	14,783
Internal Combustion	....	....	....	....	(469)
Total	....	....	....	....	15,297
1981‡					
Hydro	....	....	....	....	767
Steam	....	....	....	....	20,299
Internal Combustion	....	....	....	....	47
Total	....	....	....	....	21,113
1980‡					
Hydro	....	....	....	....	1,027
Steam	....	....	....	....	14,172
Internal Combustion	....	....	....	....	53
Total	....	....	....	....	15,252
1979‡					
Hydro	....	....	....	....	4,337
Steam	....	....	....	....	14,834
Internal Combustion	....	....	....	....	(40)
Total	....	....	....	....	19,131
1978‡					
Hydro	....	....	....	....	2,252
Steam	....	....	....	....	16,452
Internal Combustion	....	....	....	....	247
Total	....	....	....	....	18,951
1977‡					
Hydro	....	....	....	....	1,005
Steam	....	....	....	....	28,207
Internal Combustion	....	....	....	....	(13)
Total	....	....	....	....	29,199
1976‡					
Hydro	....	....	....	....	1,808
Steam	....	....	....	....	20,696
Internal Combustion	....	....	....	....	244
Total	....	....	....	....	22,748
1975‡					
Hydro	....	....	....	....	2,389
Steam	....	....	....	....	29,801
Internal Combustion	....	....	....	....	56
Total	....	....	....	....	32,246
1974‡					
Hydro	....	....	....	....	1,778
Steam	....	....	....	....	34,412
Internal Combustion	....	....	....	....	103
Total	....	....	....	....	36,293
1973‡					
Hydro	....	....	....	....	5,396
Steam	....	....	....	....	35,687
Internal Combustion	....	....	....	....	39
Total	....	....	....	....	41,122
1972‡					
Hydro	....	....	....	....	474
Steam	....	....	....	....	28,819
Internal Combustion	....	....	....	....	380
Total	....	....	....	....	29,673
1971‡					
Hydro	....	....	....	....	856
Steam	....	....	....	....	27,000
Internal Combustion	....	....	....	....	134
Total	....	....	....	....	27,990
1970					
Hydro	2,244	48	109	3	2,302
Steam	25,506	905	882	190	25,293
Internal Combustion	242	40	42	98	146
Total	27,992	993	1,033	291	27,741
1969					
Hydro	1,638	115	64	2	1,585
Steam	19,837	856	1,605	107	20,479
Internal Combustion	219	39	78	31	227
Total	21,694	1,010	1,747	140	22,291
1968					
Hydro	3,015	80	145	24	3,056
Steam	18,830	697	593	136	18,590
Internal Combustion	210	57	39	32	160
Total	22,055	834	777	192	21,806
1967					
Hydro	3,320	215	30	—	3,135
Steam	17,992	459	578	146	17,965
Internal Combustion	364	56	24	23	309
Total	21,676	730	632	169	21,409
1966					
Hydro	1,240	51	8	2	1,195
Steam	10,486	565	604	148	10,377
Internal Combustion	183	54	24	9	144
Total	11,909	670	636	159	11,716
1965					
Hydro	1,661	64	2	5	1,594
Steam	11,943	773	1,202	169	12,203
Internal Combustion	102	70	19	6	45
Total	13,706	907	1,223	180	13,842
1964					
Hydro	2,021	36	22	33	1,974
Steam	9,366	534	926	71	9,687
Internal Combustion	93	43	31	6	75
Total	11,480	613	979	110	11,736

*Beginning 1983 wind turbine capacity included in total—9.3 kilowatts in thousands.

**Adjustments are result of reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.

( ) Denotes negative figure.

‡Complete data not available at time of printing. Source: Energy Information Administration, Form 759.

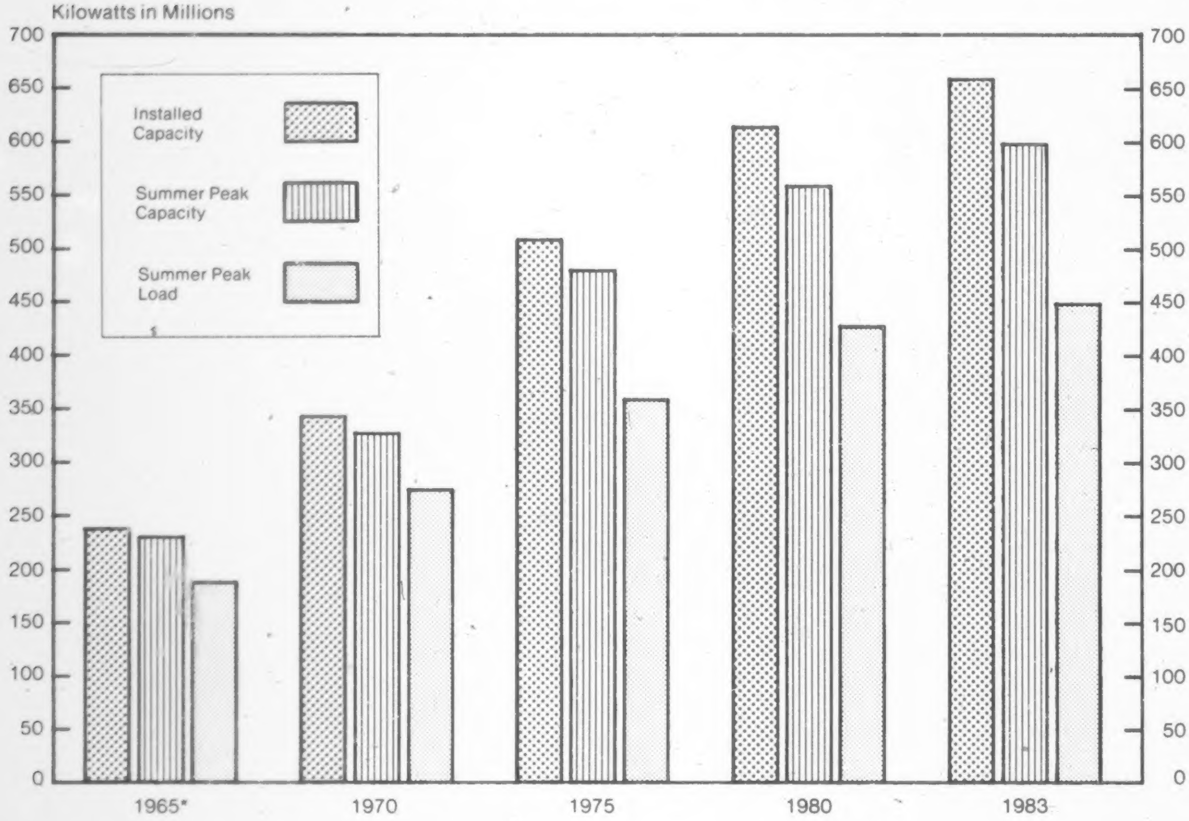
ELECTRIC POWER SUPPLY

SECTION II

CHART II-A

CAPACITY, CAPABILITY & PEAK LOAD

TOTAL ELECTRIC UTILITY INDUSTRY



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*Excludes Alaska and Hawaii.
Based on Table 2, page 8 and Table 7, page 14.
Source: Energy Information Administration, Form 759, and Edison Electric Institute, Electric Power Survey.

TABLE 7

CAPABILITY*—PEAK LOAD—KILOWATT-HOUR REQUIREMENTS TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)

Year	Capability at Time of Summer Peak Load (mW)	Non-Coincident Summer Peak Load (mW)	Capability at Time of Winter Peak Load (mW)†	Non-Coincident Winter Peak Load (mW)†	Capacity Margin Based on Non-Coincident Peak Load (%)†‡	Annual Kilowatt-Hour Requirements (in Millions)	Annual Load Factor Based on Peak Load (%)
1983p	**596,449**	**447,526**	**611,637**	**410,779**	**25.0**	**2,341,633**	**59.7**
1982r	586,142	414,909	596,930	373,318	29.2	2,258,744	62.1
1981	572,219r	428,295	581,084	391,106	25.2r	2,311,006	61.6
1980	558,237r	427,058	572,195	384,567	23.5r	2,292,718	61.1
1979	544,506r	398,424	554,525	368,876	26.8r	2,246,927	64.4
1978	545,700	408,050	561,550	383,100	25.2r	2,218,700	62.1
1977	516,000	396,350	537,600	360,200	23.2r	2,132,300	61.4
1976	498,750	370,900	511,000	349,850	25.6r	2,039,500	62.6
1975	479,300	356,800	492,450	331,100	25.6r	1,919,500	61.4
1974	444,400	349,250	467,400	302,500	21.4r	1,871,700	61.2
1973	415,500	343,900	433,150	295,100	17.2r	1,868,800	62.0
1972	381,700	319,150	394,050	290,950	16.4r	1,752,200	62.5
1971	353,250	292,100	366,700	261,650	17.3r	1,617,100	63.2
1970	326,900	274,650	339,050	248,550	16.0r	1,536,400	63.9
1969	300,300	257,650	311,450	236,600	14.2r	1,446,000	64.1
1968	278,950	238,000	288,750	226,700	14.7r	1,327,200	63.5
1967	257,950	213,450	267,750	205,850	17.3r	1,221,500	65.3
1966	240,700	203,350	247,650	193,700	15.5r	1,152,900	64.7
1965	228,900	186,300	235,700	180,400	18.6r	1,060,100	65.0
1964	216,500	175,000	222,400	171,100	19.2r	986,800	64.2
1963	205,300	159,450	210,000	161,300	23.2(w)r	921,800	65.2

*Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions. It must, therefore, provide the necessary allowance for maintenance, emergency outages, and system operating requirements. This rating is more indicative of the actual generating ability of existing power stations than the familiar name-plate rating as used in other tables of this publication.

†Beginning in 1973 capability and peak load data shown under Winter represent turn-of-year data for the winter season that follows the summer peak load data for that calendar year. Previously, data in this series was always for the month of December.

‡Calculated from the maximum non-coincident peak load, summer or winter, and the capability at the time of this peak load. Percent Capacity Margin is the difference between capability and peak load divided by capability multiplied by 100.

(w) Indicates that the non-coincident peak load, summer or winter, occurred during winter of that year.

Sources: North American Electric Reliability Council and Edison Electric Institute. All data series shown have a discontinuity between 1978 and 1979 because of the switch to NERC data. For calculation of percent changes between 1978 and 1979, see old series values for 1979 in Table 6 of 1979 edition.

p Preliminary. r Revised.

TABLE 8

ELECTRICITY MADE AVAILABLE IN THE UNITED STATES

KILOWATT-HOURS IN MILLIONS

	Generation								
Year	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States	Net Imports of Electric Energy	Total Available in U.S.	Estimated Population† (Thousands) (July 1)	kWh Per Person
1983	**1,764,080**	**546,205**	**2,310,285**	**57,352e**	**2,367,637**	**35,330**	**2,402,967**	**233,981**	**10,270**
1982	1,711,576	529,635	2,241,211	61,076e	2,302,287	30,744	2,333,031	231,786r	10,065r
1981	1,785,500	509,312	2,294,812	64,446e	2,359,258	33,584	2,392,842	229,518r	10,426r
1980	1,782,933	503,481	2,286,414	67,945e	2,354,359	20,925	2,375,284	227,236r	10,453r
1979	1,756,170	491,189	2,247,359	71,375	2,318,734	20,334	2,339,068	224,567	10,416
1978	1,721,163	485,150	2,206,313	78,967	2,285,280	19,328	2,304,608	222,095	10,377
1977	1,684,084	440,082	2,124,166	87,575	2,211,741	17,415	2,229,156	219,760	10,144
1976	1,582,029	455,645	2,037,674	87,084	2,124,758	8,611	2,133,369	217,563	9,806
1975	1,486,844	430,775	1,917,619	85,362	2,002,981	6,185	2,009,166	215,465	9,325
1974	1,442,114	424,322	1,866,436	101,572	1,968,008	12,694	1,980,702	213,342	9,284
1973	1,448,860	407,356	1,856,216	102,529	1,958,745	14,278	1,973,023	211,357	9,335
1972	1,358,929	390,708	1,749,637	104,508	1,854,145	7,744	1,861,889	209,284	8,896
1971	1,248,596	363,993	1,612,589	103,239	1,715,828	3,530	1,719,358	206,827	8,313
1970	1,183,190	348,419	1,531,609	108,162	1,639,771	1,960	1,641,731	203,984	8,048
1969	1,102,162	340,020	1,442,182	110,575	1,552,757	1,072	1,553,829	201,385	7,716
1968	1,019,313	310,130	1,329,443	106,586	1,436,029	(631)	1,435,398	199,399	7,199
1967	928,439	285,926	1,214,365	102,935	1,317,300	(299)	1,317,001	197,457	6,670
1966	880,837	263,513	1,144,350	105,094	1,249,444	1,092	1,250,536	195,576	6,394
1965	809,474	245,778	1,055,252	102,331	1,157,583	(141)	1,157,442	193,526	5,981
1964	756,183	227,807	983,990	99,751	1,083,741	1,955	1,085,696	191,141	5,680
1963	701,253	215,540	916,793	94,624	1,011,417	98	1,011,515	188,483	5,367

Note: Total may not equal sum of components due to independent rounding.

**Includes generation of industrial, mine and railway electric power plants. Does not include the generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.*

†U.S. Bureau of Census estimates; excludes Armed Forces overseas.

e Estimated by EEI. r Revised. ( ) Denotes negative figure.

Source: Energy Information Administration, Form 759.

TABLE 9

TOTAL UNITED STATES KILOWATT-HOUR SOURCE AND DISPOSITION

1963-1983—KILOWATT-HOURS IN MILLIONS

	1983p	1982r	1981	1980	1979	1978	1977
SOURCE							
Generation							
Total Electric Utility Industry	2,310,285	2,241,211	2,294,812	2,286,414	2,247,359	2,206,313	2,124,166
Industrials	44,592e	49,072e	56,045e	60,369e	65,341	72,297	83,543
Industrials—for Sales to Electric Utility Industry	12,760	12,004	8,401	7,576	6,034	6,670	4,032
Total Generation	**2,367,637**	**2,302,287**	**2,359,258**	**2,354,359**	**2,318,734**	**2,285,280**	**2,211,741**
Imports from Canada & Mexico	38,668	34,284	35,416	25,021	22,516	21,514	20,159
Total Kilowatt-hours	**2,406,305**	**2,336,571**	**2,394,674**	**2,379,380**	**2,341,250**	**2,306,794**	**2,231,900**
DISPOSITION							
Total Sales to Ultimate Customers	2,157,598	2,099,741	2,150,674	2,126,094	2,084,400	2,017,818	1,950,791
Exports to Canada & Mexico	3,337	3,540	1,832	4,096	2,182	2,186	2,744
Energy Used by Producer	2,633	2,539	1,462	2,540	3,382	2,372	2,462
Company Use & Free Service	9,508	12,051	10,068	9,053	11,086	7,975	7,037
Lost and Unaccounted For	188,637	169,628	174,593	177,228	174,859	204,146	185,323
Industrials	44,592e	49,072e	56,045e	60,369e	65,341	72,297	83,543
Total Kilowatt-hours	**2,406,305**	**2,336,571**	**2,394,674**	**2,379,380**	**2,341,250**	**2,306,794**	**2,231,900**

	1976	1975	1974	1973	1972	1971	1970
SOURCE							
Generation							
Total Electric Utility Industry	2,037,674	1,917,619	1,866,436	1,856,216	1,749,637	1,612,589	1,531,609
Industrials	82,406	79,340	94,955	95,761	98,241	96,495	102,440
Industrials—for Sales to Electric Utility Industry	4,678	6,022	6,617	6,768	6,267	6,744	5,722
Total Generation	**2,124,758**	**2,002,981**	**1,968,008**	**1,958,745**	**1,854,145**	**1,715,828**	**1,639,771**
Imports from Canada & Mexico	10,989	11,268	15,420	16,848	10,496	7,043	6,169
Total Kilowatt-hours	**2,135,747**	**2,014,249**	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**	**1,645,940**
DISPOSITION							
Total Sales to Ultimate Customers	1,849,625	1,733,024	1,700,769	1,703,203	1,577,714	1,466,441	1,391,359
Exports to Canada & Mexico	2,378	5,083	2,726	2,570	2,752	3,514	4,209
Energy Used by Producer	2,559	3,068	3,059	3,137	3,081	2,854	2,301
Company Use & Free Service	5,717	4,709	4,850	4,912	4,412	3,894	3,984
Lost and Unaccounted For	193,062	189,025	177,069	166,010	178,441	149,673	141,647
Industrials	82,406	79,340	94,955	95,761	98,241	96,495	102,440
Total Kilowatt-hours	**2,135,747**	**2,014,249**	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**	**1,645,940**

	1969	1968	1967	1966	1965	1964	1963
SOURCE							
Generation							
Total Electric Utility Industry	1,442,182	1,329,443	1,214,365	1,144,350	1,055,252	983,990	916,793
Industrials	105,203	103,026	97,856	102,257	99,376	96,821	91,690
Industrials—for Sales to Electric Utility Industry	5,372	3,560	5,079	2,837	2,955	2,930	2,934
Total Generation	**1,552,757**	**1,436,029**	**1,317,300**	**1,249,444**	**1,157,583**	**1,083,741**	**1,011,417**
Imports from Canada & Mexico	4,902	3,654	4,051	4,268	3,558	6,209	2,083
Total Kilowatt-hours	**1,557,659**	**1,439,683**	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**	**1,013,500**
DISPOSITION							
Total Sales to Ultimate Customers	1,307,178	1,202,321	1,107,023	1,038,982	953,414	890,356	830,811
Exports to Canada & Mexico	3,830	4,285	4,350	3,176	3,699	4,253	1,985
Energy Used by Producer	2,515	2,469	2,559	2,305	2,802	3,015	2,548
Company Use & Free Service	3,626	3,399	2,956	2,755	2,434	2,303	2,189
Lost and Unaccounted For	135,307	124,183	106,607	104,237	99,416	93,202	84,277
Industrials	105,203	103,026	97,856	102,257	99,376	96,821	91,690
Total Kilowatt-hours	**1,557,659**	**1,439,683**	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**	**1,013,500**

p Preliminary.   r Revised.   e Estimated.

Sources: Energy Information Administration, Form 759; Statistics Canada and Edison Electric Institute.

TABLE 10

WORLD POWER DATA

FIFTEEN COUNTRIES WITH GREATEST INSTALLED GENERATING CAPACITY

1982

	Installed Capacity (Kilowatts in Thousands)				Energy Production† (kWh in Millions)					
Country	Hydro	Nuclear	Thermal	Total	Hydro	Nuclear	Thermal	Total	Population (Thousands)	kWh Per Capita
United States	78,428	63,042	524,935	666,405	310,788	282,773	1,710,650	2,304,211	231,786‡	9,941
U.S.S.R.	55,889	18,000	211,603	285,492	175,277	80,000	1,111,823	1,367,100	268,800	5,086
Japan	33,311	17,342	104,158	154,811	84,039	102,430	394,678	581,147	118,600	4,900
Germany (West)	6,509	9,826	69,434	85,769	19,646	63,577	283,654	366,877	61,700	5,946
Canada	46,400	5,600	31,000	83,000	261,055	35,321	91,084	387,460	24,400	15,880
China (mainland)	26,000	—	50,000	76,000	74,400	—	253,280	327,680	1,008,175	325
France	21,200	23,284	29,500	73,984	70,900	103,000	92,000	265,900	54,200	4,906
United Kingdom	2,451	6,490	60,250	69,191	5,637	43,972	222,553	272,162	56,100	4,851
Italy	16,877	1,273	31,873	50,023	44,080	6,804	133,560	184,444	57,400	3,213
Brazil	32,892	—	6,012	38,904	141,224	—	10,865	152,089	127,700	1,191
India	13,058	860	24,890	38,808	52,675	3,210	82,792	138,677	713,000	194
Spain	12,700	1,500	15,700	29,900	28,036	8,772	79,952	116,760	37,900	3,081
Sweden	15,215	6,440	8,029	29,684	55,624	39,090	5,410	100,124	8,310	12,049
Australia	6,288	—	21,255	27,543	15,000	—	89,890	104,890	15,000	6,993
Poland	1,807	—	24,181	25,988	2,605	—	114,975	117,580	36,300	3,239

† *Data presented on a gross generation basis.*

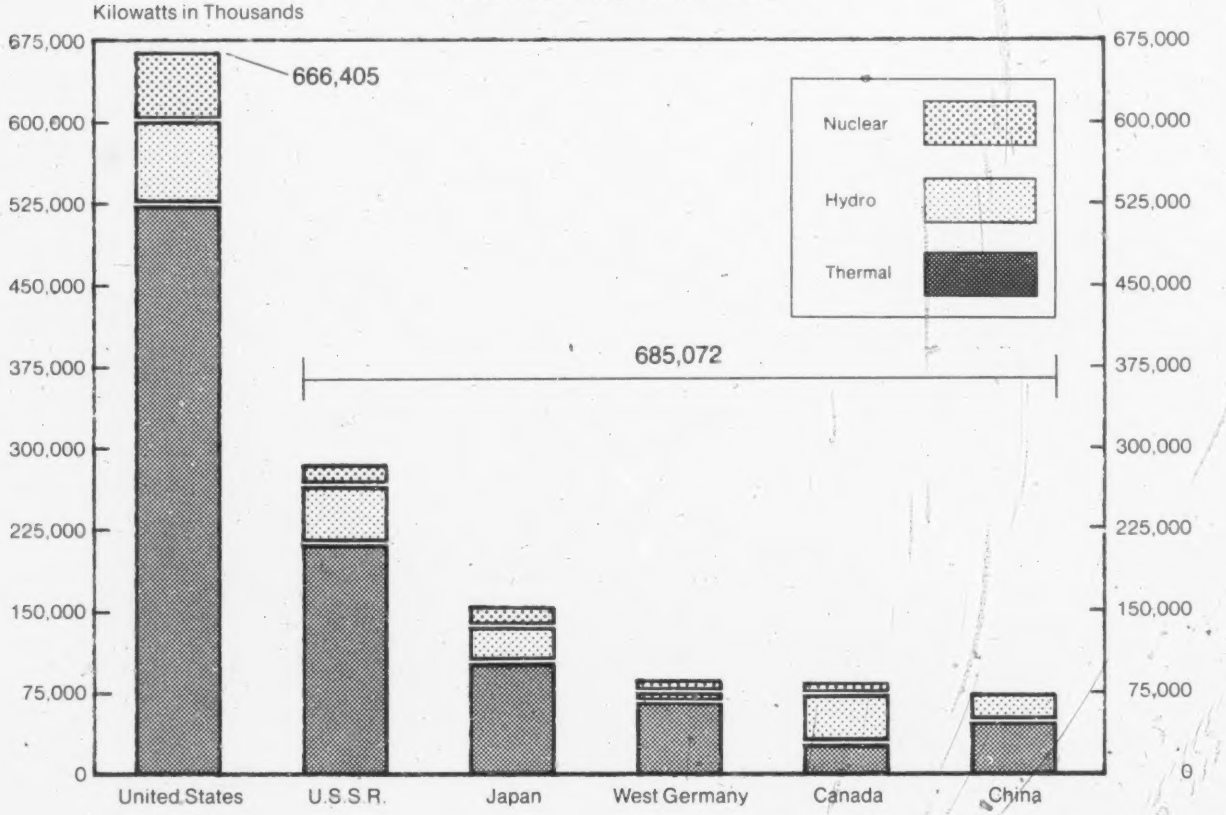
‡ *U.S. population July 1, 1982; excludes armed forces abroad. Dept. of Commerce, Bureau of Census.*

Sources: Capacity and production: UN 1982 Energy Statistics Yearbook; *population (except as noted):* The World Almanac and Book of Facts—*1984.*

CHART II-B

WORLD GENERATING CAPACITY

SIX LARGEST COUNTRIES—1982



Based on Table 10, as shown above.
Source: UN 1982 Energy Statistics Yearbook.

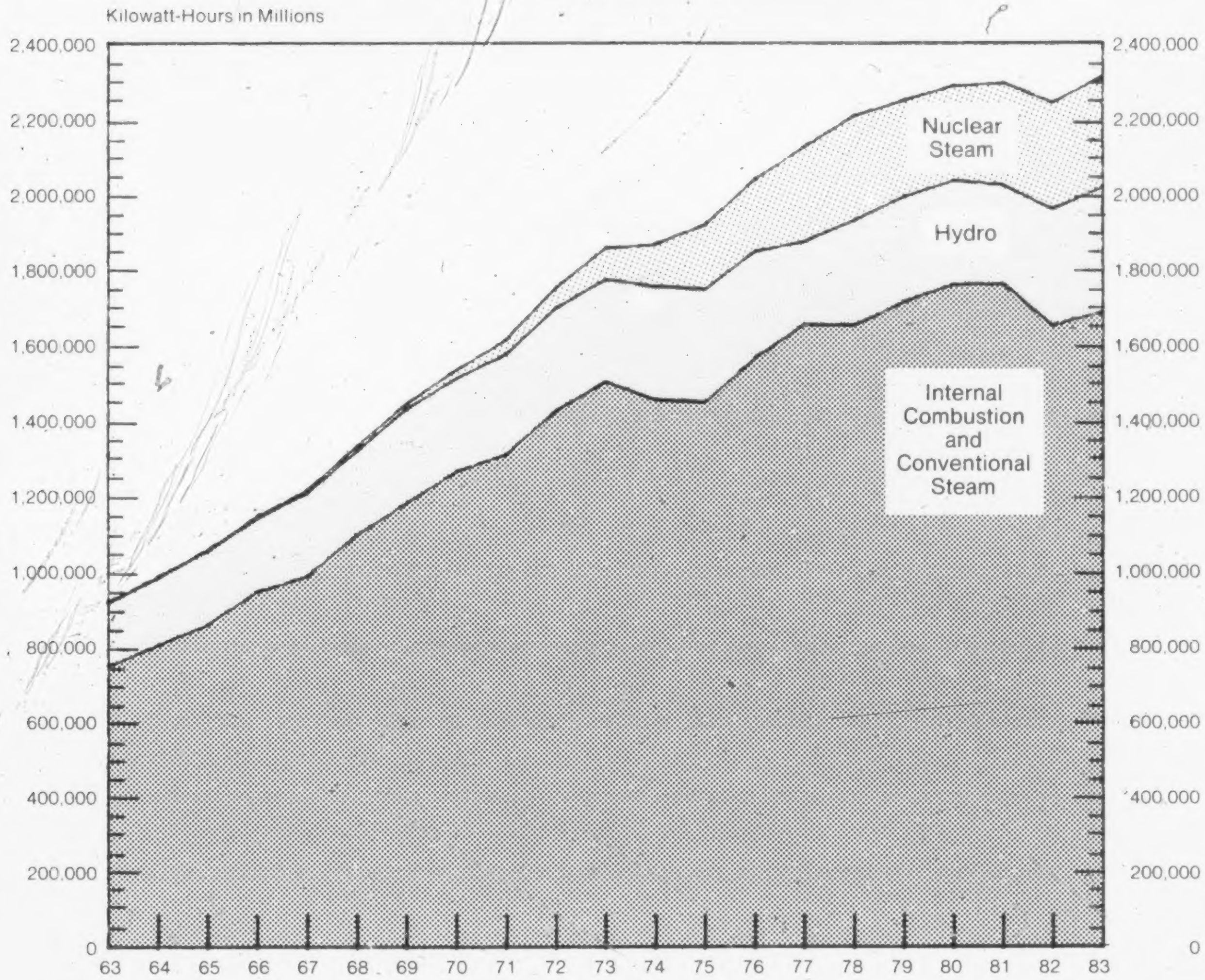
GENERATION

SECTION III

CHART III-A

GENERATION BY TYPE OF PRIME MOVER

TOTAL ELECTRIC UTILITY INDUSTRY

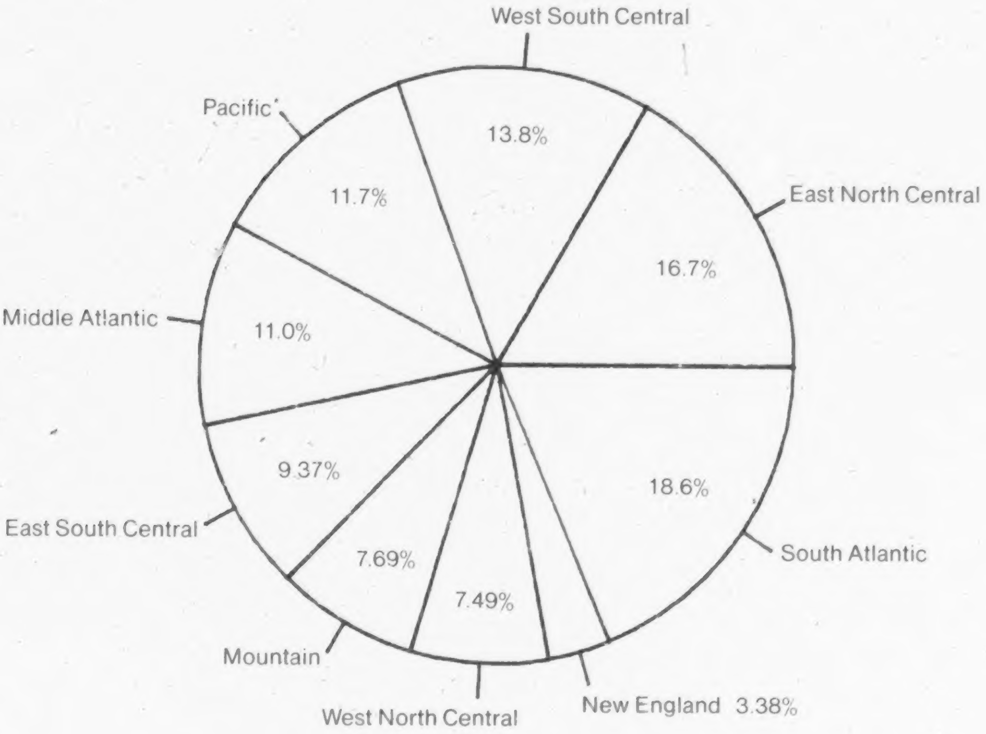


Based on Table 12, page 20.
Source: Energy Information Administration, Form 759.

CHART III-B

GENERATION BY CENSUS DIVISIONS

TOTAL ELECTRIC UTILITY INDUSTRY



*Includes Alaska and Hawaii.
Based on Table 15, page 24.
Source: Energy Information Administration, Form 759.

TABLE 12

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS IN MILLIONS

Year	Total Electric Utility Industry*	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Generation by All Types of Prime Mover)							
1983	**2,310,285**	**1,764,080**	**84,710**	**461,495**	**73,069**	**258,181**	**130,245**
1982	2,241,211	1,711,576	77,098	452,537	76,569	241,004	134,964
1981	2,294,812	1,785,500	73,314	435,998	80,701	232,222	123,075
1980	2,286,414	1,782,933	63,550	439,931	86,579	235,051	118,301
1979	2,247,359	1,756,170	54,404	436,785	87,265	235,570	113,950
1978	2,206,313	1,721,163	48,717	436,433	89,700	235,257	111,476
1977	2,124,166	1,684,084	44,884	395,198	83,382	213,633	98,183
1976	2,037,674	1,582,029	41,223	414,422	78,176	236,024	100,222
1975	1,917,619	1,486,844	35,328	395,447	81,518	221,226	92,703
1974	1,866,436	1,442,114	33,844	390,478	78,677	219,821	91,980
1973	1,856,216	1,448,860	35,127	372,229	80,872	211,715	79,642
1972	1,749,637	1,358,929	31,714	358,994	78,931	206,668	73,395
1971	1,612,589	1,248,596	27,227	336,766	72,609	194,462	69,695
1970	1,531,609	1,183,190	23,459	324,960	71,394	185,753	67,813
1969	1,442,182	1,102,162	17,513	322,507	69,614	183,245	69,648
1968	1,329,443	1,019,313	14,140	295,990	63,804	170,834	61,352
1967	1,214,365	928,439	12,389	273,537	57,788	162,399	53,350
1966	1,144,350	880,837	11,175	252,338	52,627	153,067	46,644
1965	1,055,252	809,474	8,571	237,207	49,940	145,231	42,036
1964	983,990	756,183	7,934	219,873	50,263	129,936	39,674
1963	916,793	701,253	6,949	208,591	46,293	124,340	37,958
HYDRO (Generation of Generators Driven by Water Wheels and Turbines)							
1983	**332,130**	**88,663**	**303**	**243,164**	**17,266**	**160,989**	**64,910**
1982	309,213	81,527	294	227,392	17,061	148,027	62,305
1981	260,684	61,680	231	198,773	13,700	128,690	56,383
1980	276,039	70,500	267	205,272	15,603	131,909	57,760
1979	279,790	74,105	244	205,441	13,270	137,212	54,959
1978	280,432	72,381	275	207,776	14,889	136,804	56,083
1977	220,446	55,343	220	164,883	8,572	111,951	44,360
1976	283,734	68,034	221	215,479	14,444	144,218	56,817
1975	300,065	81,524	251	218,290	16,619	142,943	58,728
1974	300,928	81,204	197	219,527	17,218	137,882	64,427
1973	271,634	77,451	229	193,954	13,439	123,148	57,367
1972	272,626	76,820	220	195,586	15,152	126,328	54,106
1971	266,314	76,521	243	189,550	14,765	121,573	53,212
1970	247,456	70,587	214	176,655	14,453	110,695	51,507
1969	250,193	74,833	215	175,145	15,494	105,687	53,964
1968	222,491	67,201	239	155,051	13,043	94,874	47,134
1967	221,518	72,072	223	149,223	10,602	96,228	42,393
1966	194,756	62,827	214	131,715	8,106	86,260	37,349
1965	193,851	67,356	281	126,204	8,580	82,769	34,855
1964	177,073	60,323	219	116,531	8,460	75,771	32,300
1963	165,755	59,439	213	106,103	7,477	68,494	30,132
CONVENTIONAL STEAM (Generation of Generators Driven by Steam Engines and Turbines)							
1983	**1,682,268**	**1,426,449**	**84,015**	**171,804**	**51,503**	**69,237**	**51,063**
1982	1,646,883	1,396,336	76,481	174,066	54,507	65,682	53,878
1981	1,758,660	1,492,062	72,619	193,980	62,421	80,715	50,844
1980	1,755,634	1,499,918	62,803	192,913	63,899	83,715	45,299
1979	1,708,256	1,472,652	53,609	181,995	65,100	77,948	38,947
1978	1,644,756	1,415,266	47,887	181,603	66,212	81,535	33,856
1977	1,648,105	1,422,684	44,193	181,228	65,402	83,202	32,624
1976	1,557,647	1,346,179	38,409	173,059	57,547	87,584	27,928
1975	1,439,374	1,249,623	33,647	156,104	57,958	75,549	22,597
1974	1,445,808	1,261,009	32,887	151,912	56,605	75,640	19,667
1973	1,494,901	1,292,888	34,108	167,905	62,422	88,240	17,243
1972	1,416,218	1,229,998	30,713	155,507	58,814	80,324	16,369
1971	1,301,960	1,135,674	26,245	140,041	53,246	72,866	13,929
1970	1,256,294	1,092,564	22,610	141,120	52,380	75,048	13,692
1969	1,172,481	1,016,361	16,760	139,360	49,800	77,544	12,016
1968	1,089,239	942,927	13,332	132,980	46,744	75,927	10,309
1967	980,336	850,541	11,434	118,361	43,292	66,136	8,933
1966	938,910	813,329	10,104	115,477	40,405	66,769	8,303
1965	852,655	738,319	7,401	106,935	37,333	62,419	7,183
1964	798,564	692,416	6,855	99,293	37,891	54,123	7,279
1963	742,780	638,431	5,915	98,434	34,893	55,794	7,747

See page 21 for footnotes.

TABLE 12 (continued)

GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

KILOWATT-HOURS IN MILLIONS

Year	Total Electric Utility Industry*	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Generation of Generators Driven by Nuclear Reactors)							
1983	**293,677**	**248,379**	**201**	**45,097**	**2,875**	**27,951**	**14,271**
1982	282,773	233,213	137	49,423	3,349	27,294	18,780
1981	272,674	231,190	241	41,243	2,585	22,810	15,847
1980	251,121	211,831	214	39,076	4,426	19,413	15,237
1979	255,155	208,788	201	46,166	5,729	20,402	20,035
1978	276,403	232,742	174	43,487	5,046	16,911	21,530
1977	250,882	205,257	89	45,536	5,865	18,473	21,198
1976	191,107	167,098	2,157	21,852	2,161	4,214	15,477
1975	172,506	154,985	951	16,570	2,470	2,722	11,378
1974	113,727	99,042	313	14,372	198	6,289	7,885
1973	83,334	77,790	199	5,345	—	314	5,031
1972	54,092	50,933	240	2,919	—	—	2,919
1971	38,106	35,357	196	2,553	—	—	2,553
1970	21,797	19,063	120	2,614	—	—	2,614
1969	13,928	10,261	—	3,667	—	—	3,667
1968	12,528	8,611	15	3,902	—	—	3,902
1967	7,655	5,499	141	2,015	—	—	2,015
1966	5,520	4,400	129	991	2	—	989
1965	3,657	3,497	143	17	22	—	(5)
1964	3,343	3,179	56	108	17	—	91
1963	3,212	3,136	1	75	—	—	75
INTERNAL COMBUSTION (Generation of Generators Driven by Internal Combustion Engines)							
1983	**2,207**	**538**	**190**	**1,429**	**1,425**	3	1
1982	2,343	501	186	1,656	1,653	2	1
1981	2,795	568	224	2,003	1,995	7	1
1980	3,620	684	266	2,670	2,651	14	5
1979	4,158	625	350	3,183	3,166	8	9
1978	4,722	774	381	3,567	3,553	7	7
1977	4,733	800	382	3,551	3,543	7	1
1976	5,186	718	436	4,032	4,024	8	—
1975	5,674	712	479	4,483	4,471	12	—
1974	5,973	859	447	4,667	4,656	10	1
1973	6,347	731	591	5,025	5,011	13	1
1972	6,701	1,178	541	4,982	4,965	16	1
1971	6,209	1,044	543	4,622	4,598	23	1
1970	6,062	976	515	4,571	4,561	10	—
1969	5,580	707	538	4,335	4,320	14	1
1968	5,185	574	554	4,057	4,017	33	7
1967	4,856	327	591	3,938	3,894	35	9
1966	5,164	281	728	4,155	4,114	38	3
1965	5,089	292	746	4,051	4,005	43	3
1964	5,010	265	804	3,941	3,895	42	4
1963	5,046	247	820	3,979	3,923	52	4

Note: Total may not equal sum of components due to independent rounding.

**Beginning 1983 generation by wind included in total; Total Electric Utility Industry — 2.7 kilowatt-hours in millions; Investor-Owned Utilities — 1.5 kilowatt-hours in millions; Federal — 1.2 kilowatt-hours in millions.*

( ) Denotes negative figure.

Source: Energy Information Administration, Form 759.

TABLE 13

GENERATION PER KILOWATT OF INSTALLED NAME PLATE CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS

Year	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned	Total Electric Utility Industry	Investor-Owned	Cooperatives*	Government-Owned
		TOTAL				HYDRO		
1983	**3,532**	**3,512**	**3,880**	**3,550**	**4,228**	**3,578**	**3,741**	**4,529**
1982	3,489	3,458	3,868	3,547	3,983	3,334	3,973	4,281
1981	3,676	3,690	4,335	3,533	3,396	2,541	3,448	3,792
1980	3,773	3,789	4,344	3,641	3,639	2,929	3,985	3,968
1979	3,816	3,827	4,272	3,725	3,823	3,103	3,642	4,173
1978	3,872	3,859	4,326	3,877	4,013	3,080	4,104	4,486
1977	3,892	3,945	4,308	3,646	3,230	2,391	3,284	3,660
1976	3,920	3,884	4,320	4,024	4,244	2,942	3,299	4,935
1975	3,895	3,836	4,254	4,102	4,634	3,556	4,149	5,226
1974	4,075	3,991	4,585	4,371	4,802	3,649	3,582	5,439
1973	4,427	4,385	5,021	4,545	4,597	3,788	4,164	5,027
1972	4,557	4,510	5,210	4,693	4,855	4,022	4,074	5,287
1971	4,541	4,532	5,122	4,534	4,800	4,035	4,418	5,198
1970	4,681	4,707	4,949	4,570	4,591	3,785	3,821	5,018
1969	4,772	4,783	4,518	4,749	4,815	4,069	3,805	5,226
1968	4,745	4,804	4,382	4,571	4,482	3,685	4,193	4,946
1967	4,697	4,770	4,289	4,482	4,759	4,176	3,912	5,105
1966	4,729	4,850	4,411	4,363	4,388	3,869	3,722	4,690
1965	4,604	4,689	3,963	4,360	4,510	4,292	4,845	4,635
1964	4,547	4,637	4,079	4,278	4,298	4,033	3,776	4,450
1963	4,561	4,623	4,070	4,380	4,270	4,207	3,822	4,307
		STEAM				INTERNAL COMBUSTION		
1983	**3,463**	**3,519**	**3,928**	**2,966**	**436**	**377**	**608**	**448**
1982	3,449	3,477	3,924	3,139	437	285	554	506
1981	3,748	3,764	4,417	3,478	501	303	638	598
1980	3,825	3,849	4,433	3,528	655	372	764	800
1979	3,849	3,881	4,381	3,527	753	347	903	956
1978	3,885	3,916	4,446	3,578	872	457	992	1,069
1977	4,022	4,048	4,423	3,777	893	487	1,129	1,070
1976	3,906	3,956	4,437	3,478	1,000	454	1,313	1,233
1975	3,815	3,868	4,375	3,358	1,127	479	1,423	1,396
1974	3,995	4,029	4,756	3,629	1,206	592	1,294	1,478
1973	4,441	4,444	5,200	4,298	1,300	478	1,723	1,668
1972	4,551	4,563	5,440	4,318	1,434	778	1,577	1,769
1971	4,540	4,589	5,377	4,063	1,406	769	1,578	1,702
1970	4,751	4,803	5,234	4,321	1,417	751	1,510	1,733
1969	4,820	4,869	4,819	4,493	1,364	593	1,575	1,695
1968	4,862	4,934	4,734	4,425	1,330	535	1,583	1,639
1967	4,742	4,851	4,671	4,096	1,326	364	1,672	1,633
1966	4,864	4,967	4,816	4,247	1,502	368	2,074	1,789
1965	4,682	4,749	4,288	4,291	1,523	390	2,159	1,802
1964	4,664	4,720	4,467	4,320	1,526	358	2,365	1,790
1963	4,690	4,688	4,463	4,719	1,597	316	2,491	1,875

Source: Energy Information Administration data as shown in Tables 2 and 12.

TABLE 14

GENERATION IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

Year	Investor-Owned	Cooperatives	Government-Owned	Total	Investor-Owned	Cooperatives	Government-Owned	Total	Investor-Owned	Cooperatives	Government-Owned
	TOTAL			HYDRO				CONVENTIONAL STEAM			
1983	**76.4**	**3.6**	**20.0**	**14.4**	**3.9**	**0.0**	**10.5**	**72.8**	**61.7**	**3.6**	**7.5**
1982	76.4	3.4	20.2	13.8	3.7	0.0	10.1	73.5	62.3	3.4	7.8
1981	77.8	3.2	19.0	11.4	2.7	0.0	8.7	76.6	65.0	3.2	8.4
1980	78.0	2.8	19.2	12.1	3.1	0.0	9.0	76.8	65.6	2.8	8.4
1979	78.1	2.4	19.5	12.4	3.3	0.0	9.1	76.0	65.5	2.4	8.1
1978	78.0	2.2	19.8	12.7	3.3	0.0	9.4	74.6	64.2	2.2	8.2
1977	79.3	2.1	18.6	10.4	2.6	0.0	7.8	77.6	67.0	2.1	8.5
1976	77.7	2.0	20.3	13.9	3.3	0.0	10.6	76.4	66.1	1.9	8.4
1975	77.5	1.9	20.6	15.6	4.2	0.0	11.4	75.1	65.2	1.8	8.1
1974	77.3	1.8	20.9	16.1	4.4	0.0	11.7	77.5	67.6	1.8	8.1
1973	78.1	1.9	20.0	14.6	4.2	0.0	10.4	80.6	69.7	1.9	9.0
1972	77.7	1.8	20.5	15.6	4.4	0.0	11.2	80.9	70.3	1.8	8.8
1971	77.4	1.7	20.9	16.5	4.7	0.0	11.8	80.7	70.4	1.7	8.6
1970	77.3	1.5	21.2	16.2	4.7	0.0	11.5	82.0	71.3	1.5	9.2
1969	76.4	1.2	22.4	17.3	5.2	0.0	12.1	81.3	70.4	1.2	9.7
1968	76.7	1.0	22.3	16.8	5.1	0.0	11.7	81.9	70.9	1.0	10.0
1967	76.5	1.0	22.5	18.2	5.9	0.0	12.3	80.7	70.1	0.9	9.7
1966	77.0	1.0	22.0	17.0	5.5	0.0	11.5	82.1	71.1	0.9	10.1
1965	76.7	0.8	22.5	18.4	6.4	0.0	12.0	80.8	70.0	0.7	10.1
1964	76.8	0.8	22.4	18.0	6.1	0.0	11.9	81.2	70.4	0.7	10.1
1963	76.5	0.7	22.8	18.1	6.5	0.0	11.6	81.1	69.7	0.6	10.8
				NUCLEAR STEAM				INTERNAL COMBUSTION			
1983				**12.7**	**10.8**	**0.0**	**1.9**	**0.1**	**0.0**	**0.0**	**0.1**
1982				12.6	10.4	0.0	2.2	0.1	0.0	0.0	0.1
1981				11.9	10.1	0.0	1.8	0.1	0.0	0.0	0.1
1980				11.0	9.3	0.0	1.7	0.1	0.0	0.0	0.1
1979				11.4	9.3	0.0	2.1	0.2	0.0	0.0	0.2
1978				12.5	10.5	0.0	2.0	0.2	0.0	0.0	0.2
1977				11.8	9.7	0.0	2.1	0.2	0.0	0.0	0.2
1976				9.4	8.2	0.1	1.1	0.3	0.1	0.0	0.2
1975				9.0	8.0	0.1	0.9	0.3	0.1	0.0	0.2
1974				6.1	5.3	0.0	0.8	0.3	0.0	0.0	0.3
1973				4.5	4.2	0.0	0.3	0.3	0.0	0.0	0.3
1972				3.1	2.9	0.0	0.2	0.4	0.1	0.0	0.3
1971				2.4	2.2	0.0	0.2	0.4	0.1	0.0	0.3
1970				1.4	1.2	0.0	0.2	0.4	0.1	0.0	0.3
1969				1.0	0.7	0.0	0.3	0.4	0.1	0.0	0.3
1968				1.0	0.7	0.0	0.3	0.3	0.0	0.0	0.3
1967				0.7	0.5	0.0	0.2	0.4	0.0	0.1	0.3
1966				0.5	0.4	0.0	0.1	0.4	0.0	0.1	0.3
1965				0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1964				0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1963				0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4

Source: Energy Information Administration data as shown in Table 12.

TABLE 15

GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1982 and 1983—KILOWATT-HOURS IN MILLIONS

	Total Electric Utility Industry†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982
Total United States	**2,310,285**	**2,241,211**	**332,130**	**309,213**	**1,682,268**	**1,646,883**	**293,677**	**282,773**	**2,207**	**2,343**
Maine	9,737	8,324	1,963	1,970	2,043	1,828	5,730	4,524	1	2
New Hampshire	5,288	4,784	1,198	1,095	4,090	3,689	—	—	—	—
Vermont	3,916	5,052	936	776	109	100	2,870	4,174	1	1
Massachusetts	34,740	33,986	215	189	28,363	29,522	6,063	4,173	99	102
Rhode Island	584	442	3	3	574	432	—	—	8	7
Connecticut	23,900	24,417	372	365	11,939	10,427	11,588	13,625	1	*
New England	**78,165**	**77,005**	**4,686**	**4,398**	**47,118**	**45,998**	**26,251**	**26,497**	**110**	**113**
New York	104,948	101,935	26,162	25,329	62,358	62,128	16,376	14,438	52	40
New Jersey	27,312	31,465	(231)	(225)	21,214	17,651	6,328	14,039	—	—
Pennsylvania	123,604	118,974	1,169	1,828	107,708	100,664	14,718	16,472	8	9
Middle Atlantic	**255,863**	**252,373**	**27,101**	**26,933**	**191,280**	**180,443**	**37,422**	**44,949**	**61**	**49**
Ohio	105,873	105,153	135	5	100,817	101,907	4,904	3,226	17	14
Indiana	70,863	63,826	418	428	70,437	63,393	—	—	7	5
Illinois	99,160	93,660	117	107	70,920	65,802	28,021	27,625	101	125
Michigan	70,911	68,703	1,113	1,094	53,329	52,451	16,383	15,003	86	155
Wisconsin	39,348	37,393	2,298	2,164	27,749	24,959	9,299	10,268	3	3
East North Central	**386,153**	**368,734**	**4,082**	**3,798**	**323,252**	**308,512**	**58,607**	**56,122**	**213**	**302**
Minnesota	29,971	28,547	929	861	17,277	17,463	11,753	10,197	13	25
Iowa	22,253	21,867	918	917	19,013	18,674	2,309	2,269	13	7
Missouri	52,705	49,063	1,716	1,656	50,924	47,352	—	—	66	55
North Dakota	19,601	18,314	2,377	2,553	17,224	15,761	—	—	(*)	(*)
South Dakota	7,779	7,920	5,494	5,394	2,286	2,527	—	—	(1)	(1)
Nebraska	17,052	18,269	1,346	1,212	9,586	8,251	6,082	8,753	38	53
Kansas	23,773	23,220	6	7	23,408	22,727	—	—	359	487
West North Central	**173,135**	**167,200**	**12,785**	**12,600**	**139,719**	**132,755**	**20,143**	**21,219**	**488**	**626**
Delaware	9,473	7,016	—	—	9,472	7,016	—	—	1	—
Maryland	32,646	29,755	1,765	1,341	19,120	18,018	11,676	10,345	84	50
District of Columbia	221	87	—	—	221	87	—	—	—	—
Virginia	37,723	36,600	1,182	913	17,855	18,258	18,674	17,420	11	8
West Virginia	72,476	68,285	419	428	72,057	67,857	—	—	—	—
North Carolina	74,690	74,496	6,139	5,405	56,189	59,964	12,363	9,126	*	—
South Carolina	45,966	36,778	3,049	2,380	17,336	21,241	25,581	13,156	*	—
Georgia	66,580	59,985	4,065	3,598	54,740	49,781	7,774	6,606	*	*
Florida	91,522	92,047	220	261	76,159	72,158	14,805	19,319	338	310
South Atlantic	**431,297**	**405,048**	**16,840**	**14,326**	**323,150**	**314,381**	**90,872**	**75,973**	**435**	**368**
Kentucky	57,682	58,111	3,244	3,343	54,439	54,768	—	—	—	—
Tennessee	69,441	59,505	9,952	9,769	45,438	39,632	14,051	10,104	—	—
Alabama	76,172	74,680	11,141	10,707	39,886	36,272	25,145	27,701	—	—
Mississippi	13,359	16,971	—	—	13,359	16,971	—	—	—	—
East South Central	**216,654**	**209,267**	**24,338**	**23,819**	**153,121**	**147,643**	**39,195**	**37,805**	—	—
Arkansas	30,073	23,479	3,315	2,106	19,111	13,890	7,646	7,482	*	*
Louisiana	37,042	41,535	—	—	37,025	41,511	—	—	16	24
Oklahoma	45,711	44,926	2,500	2,090	43,139	42,750	—	—	71	87
Texas	206,214	206,393	1,107	1,027	205,009	205,239	—	—	98	126
West South Central	**319,039**	**316,333**	**6,922**	**5,223**	**304,285**	**303,390**	**7,646**	**7,482**	**186**	**237**
Montana	15,097	14,844	11,561	10,920	3,535	3,924	—	—	*	*
Idaho	12,772	11,592	12,771	11,591	*	1	—	—	*	*
Wyoming	26,258	27,535	1,150	850	25,107	26,686	—	—	(1)	(1)
Colorado	25,225	25,578	1,870	1,649	22,605	23,354	748	569	1	5
New Mexico	27,170	23,758	89	79	26,998	23,650	—	—	83	30
Arizona	41,369	38,720	14,467	7,000	26,902	31,720	—	—	*	*
Utah	12,424	11,892	1,394	1,024	11,029	10,866	—	—	1	1
Nevada	17,373	15,585	4,094	1,420	13,280	14,165	—	—	(*)	(1)
Mountain	**177,686**	**169,503**	**47,396**	**34,534**	**129,456**	**134,365**	**748**	**569**	**84**	**35**
Washington	95,099	96,691	85,435	87,576	6,170	5,484	3,494	3,631	*	*
Oregon	49,180	50,771	45,049	45,195	446	784	3,685	4,792	(*)	*
California	117,734	118,321	56,885	50,226	55,216	64,342	5,613	3,735	17	17
Pacific	**262,012**	**265,783**	**187,369**	**182,997**	**61,833**	**70,610**	**12,792**	**12,158**	**17**	**17**
Alaska	3,748	3,597	593	561	2,844	2,738	—	—	310	298
Hawaii	6,531	6,367	17	23	6,210	6,046	—	—	304	297
Alaska & Hawaii	**10,279**	**9,964**	**611**	**585**	**9,054**	**8,784**	—	—	**614**	**595**

Note: Total may not equal sum of components due to independent rounding.
†Beginning 1983, generation by wind included in total—3 kWh in millions.
*( ) Denotes negative figure. *Less than five hundred thousand kilowatt-hours.*
Source: Energy Information Administration, Form 759.

TABLE 16

GENERATION

INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1982 and 1983—KILOWATT-HOURS IN MILLIONS

	Total Investor-Owned Utilities†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982
Total United States	**1,764,080**	**1,711,576**	**88,663**	**81,527**	**1,426,449**	**1,396,336**	**248,379**	**233,213**	**588**	**501**
Maine	9,730	8,317	1,955	1,963	2,043	1,828	5,730	4,524	1	2
New Hampshire	5,288	4,784	1,198	1,095	4,090	3,689	—	—	—	—
Vermont	3,753	4,904	880	726	3	3	2,870	4,174	1	1
Massachusetts	33,957	33,376	173	152	27,648	28,979	6,063	4,173	73	72
Rhode Island	581	438	—	—	574	432	—	—	8	7
Connecticut	23,881	24,384	359	351	11,934	10,407	11,588	13,625	*	*
New England	**77,190**	**76,203**	**4,565**	**4,286**	**46,291**	**45,339**	**26,251**	**26,497**	**83**	**82**
New York	74,400	69,978	3,594	3,616	59,120	58,316	11,680	8,041	6	5
New Jersey	27,102	31,273	(233)	(225)	21,007	17,459	6,328	14,039	—	—
Pennsylvania	123,586	118,957	1,169	1,828	107,690	100,648	14,718	16,472	8	9
Middle Atlantic	**225,088**	**220,209**	**4,531**	**5,219**	**187,817**	**176,423**	**32,726**	**38,552**	**15**	**14**
Ohio	104,869	104,194	130	—	99,831	100,963	4,904	3,226	4	5
Indiana	66,416	60,705	418	427	65,996	60,277	—	—	1	*
Illinois	96,198	90,981	55	57	68,121	63,299	28,021	27,626	1	1
Michigan	66,872	64,424	880	857	49,603	48,565	16,383	15,003	6	(2)
Wisconsin	34,839	33,300	2,083	1,954	23,658	21,214	9,098	10,131	1	*
East North Central	**369,194**	**353,604**	**3,565**	**3,296**	**307,209**	**294,318**	**58,405**	**55,985**	**13**	**5**
Minnesota	29,114	27,601	913	850	16,449	16,555	11,753	10,197	(*)	(*)
Iowa	20,833	20,725	908	907	17,616	17,549	2,309	2,269	(1)	(1)
Missouri	36,819	35,120	729	745	36,088	34,374	—	—	2	1
North Dakota	2,811	2,517	—	—	2,812	2,517	—	—	(*)	(*)
South Dakota	2,280	2,523	1	1	2,280	2,524	—	—	(1)	(1)
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	20,419	20,028	6	7	20,413	20,022	—	—	*	*
West North Central	**112,276**	**108,513**	**2,556**	**2,509**	**95,658**	**93,540**	**14,062**	**12,466**	**(*)**	**(1)**
Delaware	8,949	6,621	—	—	8,949	6,621	—	—	—	—
Maryland	32,567	29,706	1,765	1,341	19,120	18,018	11,676	10,345	5	2
District of Columbia	221	87	—	—	221	87	—	—	—	—
Virginia	37,050	36,072	541	426	17,830	18,223	18,674	17,420	5	3
West Virginia	72,476	68,285	419	428	72,057	67,857	—	—	—	—
North Carolina	73,366	73,183	4,843	4,124	56,161	59,933	12,363	9,126	—	—
South Carolina	37,481	27,160	1,593	1,248	10,307	12,756	25,581	13,156	—	—
Georgia	64,521	58,412	2,012	2,029	54,735	49,778	7,774	6,606	*	*
Florida	80,363	79,325	*	*	65,558	60,006	14,805	19,319	1	1
South Atlantic	**406,995**	**378,851**	**11,173**	**9,595**	**304,939**	**293,278**	**90,872**	**75,973**	**12**	**5**
Kentucky	27,030	24,742	410	442	26,620	24,300	—	—	—	—
Tennessee	836	755	836	755	—	—	—	—	—	—
Alabama	43,524	41,161	5,401	5,024	26,879	25,625	11,245	10,512	—	—
Mississippi	11,102	14,657	—	—	11,102	14,657	—	—	—	—
East South Central	**82,492**	**81,316**	**6,647**	**6,221**	**64,600**	**64,583**	**11,245**	**10,512**	—	—
Arkansas	26,946	21,257	202	176	19,098	13,599	7,646	7,482	*	*
Louisiana	30,576	35,157	—	—	30,575	35,150	—	—	1	7
Oklahoma	37,167	37,135	—	—	37,162	37,130	—	—	4	5
Texas	177,773	178,274	51	55	177,721	178,218	—	—	1	1
West South Central	**272,462**	**271,822**	**253**	**230**	**264,556**	**264,096**	**7,646**	**7,482**	**7**	**13**
Montana	9,120	9,110	5,584	5,186	3,535	3,924	—	—	*	*
Idaho	9,150	8,229	9,149	8,228	*	1	—	—	*	*
Wyoming	17,766	20,666	—	—	17,766	20,667	—	—	(1)	(1)
Colorado	13,419	13,829	157	125	12,514	13,132	748	569	*	3
New Mexico	26,799	23,268	—	—	26,716	23,257	—	—	83	12
Arizona	7,034	8,227	36	31	6,997	8,196	—	—	*	*
Utah	11,389	11,142	363	288	11,026	10,854	—	—	(*)	(*)
Nevada	13,340	14,223	60	58	13,280	14,165	—	—	(*)	(1)
Mountain	**108,015**	**108,694**	**15,349**	**13,917**	**91,836**	**94,194**	**748**	**569**	**82**	**14**
Washington	11,000	10,096	4,829	4,612	6,170	5,484	—	—	*	*
Oregon	13,748	14,567	9,617	9,030	446	745	3,685	4,792	(*)	(*)
California	78,982	81,237	25,509	22,545	50,716	58,289	2,738	386	17	17
Pacific	**103,730**	**105,901**	**39,956**	**36,188**	**57,333**	**64,518**	**6,423**	**5,178**	**17**	**17**
Alaska	107	97	50	42	—	—	—	—	57	55
Hawaii	6,531	6,367	17	23	6,210	6,046	—	—	304	297
Alaska & Hawaii	**6,638**	**6,464**	**67**	**65**	**6,210**	**6,046**	—	—	**361**	**352**

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983, generation by wind included in total—2 kWh in millions.

( ) Denotes negative figure. **Less than five hundred thousand kilowatt-hours.*

Source: Energy Information Administration, Form 759.

TABLE 17

GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY AND INVESTOR-OWNED ELECTRIC UTILITIES

BY MONTH AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

1980-1983—KILOWATT-HOURS IN MILLIONS

	Total Electric Utility Industry*					Investor-Owned Electric Utilities*				
Year—Month	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
YEAR—1983										
January	195,579	29,235	141,121	25,073	151	148,379	7,951	118,973	21,414	41
February	172,479	27,950	122,194	22,198	137	130,361	7,925	104,443	17,947	45
March	182,488	30,302	128,136	23,890	160	137,712	9,010	109,219	19,418	65
April	170,372	29,989	117,884	22,335	165	127,950	9,186	101,309	17,380	75
May	174,392	31,194	121,013	22,051	134	131,484	9,068	104,283	18,096	37
June	191,048	30,692	136,030	24,152	174	144,860	7,825	116,212	20,783	40
July	220,165	28,113	166,162	25,602	288	169,170	6,443	140,439	22,239	49
August	229,957	25,828	177,601	26,201	327	177,653	5,394	149,400	22,810	50
September	195,604	21,712	148,681	25,007	203	152,513	5,095	124,855	22,515	48
October	182,931	20,747	136,249	25,797	138	142,471	5,123	115,601	21,707	40
November	182,949	24,678	133,121	25,010	140	140,971	6,780	112,951	21,198	41
December	212,319	31,691	154,076	26,361	191	160,556	8,863	128,764	22,871	58
Total	2,310,285	332,130	1,682,268	293,677	2,207	1,764,080	88,663	1,426,449	248,379	588
Year—1982										
January	209,403	26,896	156,585	25,678	245	161,670	7,028	132,967	21,620	54
February	180,299	26,690	133,220	20,188	201	137,702	7,501	113,535	16,621	47
March	187,687	29,885	134,849	22,755	199	141,710	8,099	115,303	18,253	54
April	172,580	27,928	122,700	21,785	167	130,240	8,104	104,611	17,484	40
May	177,147	27,971	127,366	21,639	172	133,958	7,858	108,371	17,689	40
June	186,128	27,953	133,956	24,026	194	140,529	7,201	113,437	19,852	39
July	210,584	27,294	157,548	25,467	274	160,154	6,188	133,100	20,819	48
August	205,656	23,894	156,517	24,986	258	157,181	5,234	131,339	20,566	42
September	180,662	19,896	135,192	25,391	184	139,937	4,933	114,180	20,793	31
October	172,966	19,750	129,818	23,248	150	134,491	5,013	110,455	18,991	32
November	173,377	23,297	126,696	23,235	150	132,487	6,141	106,904	19,407	35
December	184,722	27,760	132,437	24,376	149	141,517	8,228	112,133	21,118	38
Total	2,241,211	309,213	1,646,883	282,773	2,343	1,711,576	81,527	1,396,336	233,213	501
YEAR—1981										
January	206,467	22,338	160,077	23,779	272	160,639	4,706	136,541	19,321	71
February	179,613	21,099	136,711	21,595	208	140,656	5,576	116,577	18,456	47
March	185,553	20,572	142,779	22,004	197	145,825	5,509	122,102	18,165	48
April	172,545	20,723	130,977	20,646	199	134,957	5,999	111,991	16,922	45
May	177,806	24,081	133,795	19,723	207	135,723	5,697	113,027	16,953	45
June	202,702	26,370	154,906	21,166	261	155,322	5,877	131,226	18,170	49
July	220,373	25,133	171,816	23,080	345	168,830	4,640	145,246	18,885	59
August	210,403	21,615	161,559	26,946	283	163,033	3,887	135,474	23,623	49
September	186,838	17,822	144,387	24,398	232	147,532	4,053	122,185	21,253	41
October	181,352	18,088	142,507	20,556	200	144,267	4,581	121,541	18,109	37
November	175,570	18,963	133,643	22,783	180	137,858	5,026	113,449	19,347	36
December	195,590	23,879	145,503	25,997	212	150,859	6,130	122,703	21,984	42
Total	2,294,812	260,684	1,758,660	272,674	2,795	1,785,500	61,680	1,492,062	231,190	568
YEAR—1980										
January	200,005	25,278	154,629	19,746	352	155,817	6,907	132,169	16,675	66
February	188,715	21,378	147,728	19,277	332	148,462	5,728	125,690	16,981	63
March	187,465	24,332	142,769	20,039	325	146,235	6,949	121,630	17,578	78
April	168,721	25,748	123,913	18,794	266	131,284	8,280	107,227	15,733	44
May	175,734	28,865	128,248	18,385	236	133,351	7,701	110,427	15,182	41
June	189,429	27,656	143,168	18,322	283	143,473	6,235	122,360	14,833	45
July	216,776	24,469	170,825	21,024	458	168,424	5,091	145,525	17,729	79
August	215,393	20,431	170,233	24,333	396	169,610	4,255	144,780	20,508	67
September	191,484	18,491	149,142	23,572	279	150,724	4,377	126,455	19,847	45
October	178,556	17,866	135,961	24,510	219	142,652	4,568	116,852	21,187	45
November	178,550	19,217	138,109	20,984	240	140,768	4,871	118,097	17,745	55
December	195,586	22,308	150,909	22,135	234	152,133	5,538	128,706	17,833	56
Total	2,286,414	276,039	1,755,634	251,121	3,620	1,782,933	70,500	1,499,918	211,831	684

Note: Total may not equal sum of components due to independent rounding.

**Beginning 1983, generation by wind included in total. Total Electric Utility Industry—3 kWh in millions; Investor-Owned Electric Utilities—2 kWh in millions.*

Source: Energy Information Administration, Form 759.

TABLE 18

INDEX OF WEEKLY ELECTRIC OUTPUT TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)
SEASONALLY ADJUSTED—1967 AVERAGE = 100
1973-1983

Week Number	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
1	169	176	180	179	199	184	181	162	154	154	154
2	174	179	189	178	192	184	182	174	152	151	160
3	176	205	197	170	189	184	191	171	162	149	149
4	188	193	185	176	186	182	193	175	158	145	148
5	182	190	182	194	201	193	187	169	155	146	153
6	177	183	191	190	198	185	183	170	158	153	150
7	186	192	192	188	196	180	176	163	159	151	156
8	183	182	176	185	194	183	177	158	154	150	153
9	184	193	187	200	196	187	174	162	156	155	150
10	185	196	193	204	191	186	177	164	164	148	147
11	186	194	192	196	194	176	170	167	162	151	147
12	189	192	198	195	189	170	171	170	157	154	152
13	201	195	195	196	193	170	176	164	156	157	150
14	195	195	189	191	194	173	171	165	159	154	152
15	196	201	193	188	193	174	172	163	159	152	155
16	200	193	195	195	191	180	174	164	157	151	149
17	191	192	195	188	188	177	170	166	155	154	151
18	191	187	198	187	186	177	175	167	157	156	152
19	191	187	193	187	196	180	174	165	156	156	155
20	190	189	192	185	188	181	183	165	153	161	152
21	190	192	188	182	181	182	179	159	161	160	153
22	187	187	192	185	181	187	179	154	158	158	154
23	188	191	198	193	191	183	177	162	154	158	162
24	198	187	204	180	183	178	176	164	148	154	161
25	193	182	205	179	184	179	174	169	159	157	157
26	194	179	200	192	177	188	177	164	159	146	154
27	190	179	194	192	173	175	181	153	158	158	161
28	200	190	202	197	182	179	184	171	151	161	161
29	201	182	195	202	184	187	187	165	148	163	154
30	199	190	194	194	189	185	170	166	159	158	158
31	202	187	185	194	193	178	175	171	162	159	155
32	199	189	192	204	198	183	182	160	157	150	161
33	207	186	198	201	173	193	167	162	159	155	156
34	215	190	186	196	184	185	163	158	156	159	149
35	205	184	188	194	185	180	173	170	159	158	167
36	211	196	197	201	192	185	172	162	158	147	162
37	204	177	187	200	188	193	173	167	156	158	155
38	195	196	193	198	181	197	177	168	152	156	151
39	189	182	189	203	186	183	180	166	151	150	158
40	197	184	195	192	191	186	175	168	152	154	159
41	194	192	194	186	190	184	176	171	158	155	163
42	198	184	194	188	192	185	176	169	160	157	158
43	197	186	194	189	193	185	173	176	158	158	157
44	197	185	193	194	191	185	173	176	159	154	158
45	199	186	188	187	190	182	174	177	156	155	161
46	201	184	188	188	191	186	177	179	161	156	154
47	191	191	192	201	177	194	170	178	161	155	149
48	205	179	187	190	194	181	186	176	166	157	148
49	199	174	184	184	188	187	185	186	163	159	152
50	195	179	189	185	181	192	177	182	164	156	155
51	212	189	196	192	189	184	172	177	169	156	157
52	229	186	198	199	174	184	181	187	171	149	145
Year	**195**	**184**	**192**	**191**	**189**	**183**	**177**	**168**	**157**	**154**	**155**

Note: Seasonal factors are always based on 52 weeks ending on Saturday. Therefore one week is eliminated in 1977 and 1983, since those years had 53 Saturdays.
The above values are based on EEI Weekly Electric Output Index—(Revised Methodology) dated January, 1958.

TABLE 19

WEEKLY ELECTRIC OUTPUT TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)
1981-1983
KILOWATT-HOURS IN MILLIONS

Week Ended	1983	Week Ended	1982	% Change 83/82	Week Ended	1981	% Change 82/81
Jan. 1	39,828	Jan. 2	41,799	− 4.7	Jan. 3	42,727	− 2.2
8	44,706	9	46,017	− 2.8	10	48,796	− 5.7
15	44,732	16	51,909	−13.8	17	49,789	+ 4.3
22	47,478	23	48,998	− 3.1	24	46,787	+ 4.7
29	45,394	30	47,579	− 4.6	31	45,556	+ 4.4
Feb. 5	44,713	Feb. 6	46,399	− 3.6	Feb. 7	48,526	− 4.4
12	46,055	13	47,700	− 3.4	14	47,616	+ 0.2
19	43,390	20	43,544	− 0.4	21	42,136	+ 3.3
26	41,746	27	43,787	− 4.7	28	42,427	+ 3.2
Mar. 5	41,343	Mar. 6	43,905	− 5.8	Mar. 7	43,190	+ 1.7
12	41,356	13	43,177	− 4.2	14	42,743	+ 1.0
19	41,248	20	41,853	− 1.4	21	43,066	− 2.8
26	42,734	27	41,510	+ 2.9	28	41,692	− 0.4
Apr. 2	40,863	Apr. 3	41,234	− 0.9	Apr. 4	39,964	+ 3.2
9	40,125	10	42,072	− 4.6	11	40,461	+ 4.0
16	40,841	17	40,079	+ 1.9	18	40,599	− 1.3
23	41,486	24	40,059	+ 3.6	25	40,595	− 1.3
30	39,822						
		May 1	39,205	+ 1.6	May 2	41,417	− 5.3
May 7	40,028	8	39,584	+ 1.1	9	40,800	− 3.0
14	40,391	15	40,409	0.0	16	41,045	− 1.5
21	40,727	22	42,088	− 3.2	23	41,237	+ 2.1
28	41,569	29	42,516	− 2.2	30	41,814	+ 1.7
June 4	40,367	June 5	41,509	− 2.8	June 6	44,904	− 7.6
11	42,793	12	43,635	− 1.9	13	47,615	− 8.4
18	46,123	19	43,725	+ 5.5	20	49,190	−11.1
25	47,445	26	43,593	+ 8.8	27	48,765	−10.6
July 2	48,131	July 3	44,657	+ 7.8	July 4	46,037	− 3.0
9	45,629	10	44,971	+ 1.5	11	50,407	−10.8
16	51,046	17	48,644	+ 4.9	18	52,124	− 6.7
23	53,607	24	49,824	+ 7.6	25	50,898	− 2.1
30	52,214	31	49,073	+ 6.4			
					Aug. 1	48,364	+ 1.5
Aug. 6	52,778	Aug. 7	49,136	+ 7.4	8	49,901	− 1.5
13	51,700	14	46,285	+11.7	15	49,262	− 6.0
20	51,398	21	46,786	+ 9.9	22	45,797	+ 2.2
27	52,730	28	46,082	+14.4	29	47,014	− 2.0
Sept. 3	51,296	Sept. 4	45,180	+13.5	Sept. 5	46,351	− 2.5
10	49,438	11	41,699	+18.6	12	42,980	− 3.0
17	46,639	18	44,427	+ 5.0	19	43,617	+ 1.9
24	44,095	25	40,274	+ 9.5	26	41,630	− 3.3
Oct. 1	41,625	Oct. 2	39,797	+ 4.6	Oct. 3	42,204	− 5.7
8	42,381	9	41,266	+ 2.7	10	41,501	− 0.6
15	41,471	16	39,572	+ 4.8	17	41,446	− 4.5
22	42,251	23	39,974	+ 5.7	24	41,513	− 3.7
29	42,046	30	40,067	+ 4.9	31	41,658	− 3.8
Nov. 5	42,577	Nov. 6	40,999	+ 3.8	Nov. 7	41,013	0.0
12	43,065	13	41,300	+ 4.3	14	42,129	− 2.0
19	44,563	20	42,659	+ 4.5	21	42,536	+ 0.2
26	42,099	27	40,145	+ 4.9	28	41,711	− 3.8
Dec. 3	45,354	Dec. 4	41,284	+ 9.9	Dec. 5	43,431	− 4.9
10	46,889	11	43,174	+ 8.6	12	45,293	− 4.7
17	46,773	18	45,709	+ 2.3	19	47,108	− 3.0
24	51,337	25	41,732	+23.0	26	44,065	− 5.3
31	51,275						

Note: "Weekly Electric Output" is the total of that reported by the individual utilities which consists of the net electric energy generated by each respondent utility plus energy received from others less energy delivered for resale.

These figures are based on the reports of investor-owned utilities, large municipal systems, and state and Federal agencies comprising 94 percent of the total. They are then expanded to an estimated full coverage of the contiguous United States. As these data are for 52 weeks rather than for the calendar year and include net imports and purchases from industrial plants they do not add to totals for the electric utility industry shown in other tables.

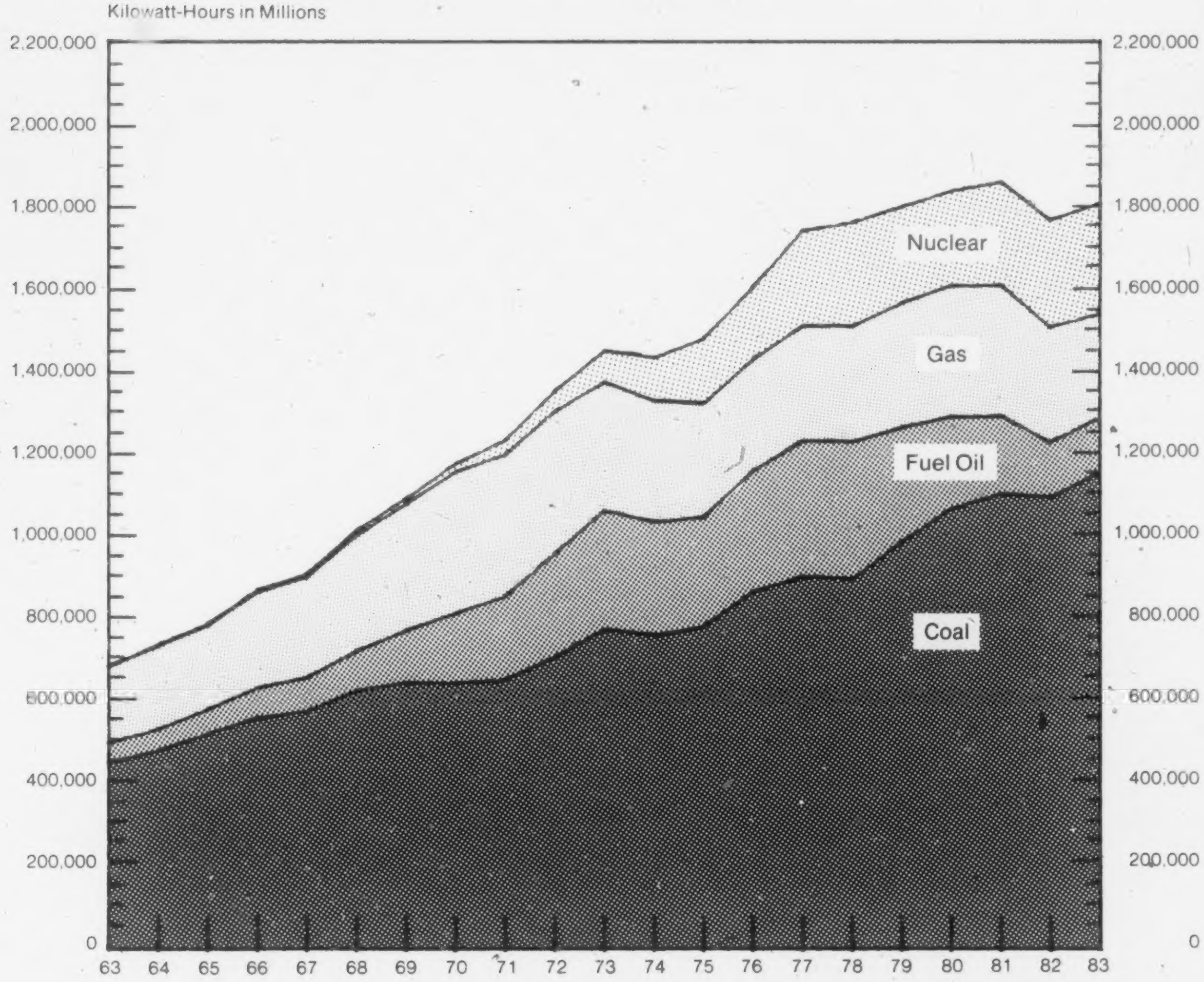
FUEL

SECTION IV

CHART IV-A

ELECTRIC POWER GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY
BY FUEL SOURCE*



*Excludes geothermal, wood and waste.
Based on Table 21, page 30.
Source: Energy Information Administration, Form 759.

TABLE 21

GENERATION BY FUEL
TOTAL ELECTRIC UTILITY INDUSTRY*

BY YEAR AND KIND OF FUEL
KILOWATT-HOURS IN MILLIONS

Year	Total Thermal Generation**	Coal	Percent of Total	Fuel Oil	Percent of Total	Gas	Percent of Total	Nuclear	Percent of Total
1983	**1,971,698**	**1,259,424**	**63.9**	**144,499**	**7.3**	**274,098**	**13.9**	**293,677**	**14.9**
1982	1,926,835	1,192,379	61.9	146,423	7.6	305,260	15.8	282,773	14.7
1981	2,028,075	1,203,554	59.3	206,070	10.2	345,777	17.1	272,674	13.4
1980	2,004,870	1,161,969	58.0	245,547	12.2	346,233	17.3	251,121	12.5
1979	1,963,184	1,075,595	54.8	302,948	15.4	329,486	16.8	255,155	13.0
1978	1,922,566	976,618	50.8	364,153	18.9	305,392	15.9	276,403	14.4
1977	1,899,657	985,465	51.9	357,866	18.8	305,444	16.1	250,882	13.2
1976	1,750,058	944,562	54.0	319,779	18.3	294,610	16.8	191,107	10.9
1975	1,614,117	852,972	52.8	288,873	17.9	299,766	18.6	172,506	10.7
1974	1,562,806	829,842	53.1	299,306	19.1	319,931	20.5	113,727	7.3
1973	1,582,292	845,704	53.4	312,805	19.8	340,449	21.5	83,334	5.3
1972	1,475,228	772,871	52.4	272,530	18.5	375,735	25.5	54,092	3.6
1971	1,345,416	714,676	53.1	218,608	16.3	374,026	27.8	38,106	2.8
1970	1,283,271	706,102	55.0	182,488	14.2	372,884	29.1	21,797	1.7
1969	1,191,055	706,001	59.3	137,847	11.6	333,279	28.0	13,928	1.1
1968	1,106,142	684,905	61.9	104,276	9.4	304,433	27.5	12,528	1.2
1967	992,215	630,483	63.5	89,271	9.0	264,806	26.7	7,655	0.8
1966	949,072	613,475	64.6	78,926	8.3	251,151	26.5	5,520	0.6
1965	860,943	570,926	66.3	64,801	7.5	221,559	25.8	3,657	0.4
1964	806,565	526,230	65.2	56,954	7.1	220,038	27.3	3,343	0.4
1963	750,742	493,927	65.8	52,001	6.9	201,602	26.9	3,212	0.4

Note: Total may not equal sum of components due to independent rounding.

**Generation by petroleum coke included in fuel oil from 1963 to 1980 and in 1983. In 1981 and 1982 petroleum coke included in coal.*

***Excludes generation by geothermal, wood and waste.*

Source: Energy Information Administration, Form 759.

TABLE 22

GENERATION BY FUEL TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND KIND OF FUEL

1982 and 1983—KILOWATT-HOURS IN MILLIONS

Division/State	Total Thermal†		Coal‡		Fuel Oil**		Gas		Nuclear Fuel	
	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982
Total United States	**1,971,698**	**1,926,835**	**1,259,424**	**1,192,379**	**144,499**	**146,423**	**274,098**	**305,260**	**293,677**	**282,773**
Maine	7,775	6,354	—	—	2,045	1,830	—	—	5,730	4,524
New Hampshire	4,090	3,689	2,656	2,289	1,432	1,401	1	—	—	—
Vermont	2,929	4,232	42	44	5	8	13	6	2,870	4,174
Massachusetts	34,525	33,797	9,230	8,867	16,911	19,353	2,322	1,404	6,063	4,173
Rhode Island	581	438	—	—	333	378	248	61	—	—
Connecticut	23,528	24,053	—	—	11,940	10,428	—	—	11,588	13,625
New England	**73,428**	**72,564**	**11,927**	**11,199**	**32,666**	**33,397**	**2,584**	**1,471**	**26,251**	**26,497**
New York	78,769	76,597	15,585	15,254	34,380	32,932	12,428	13,974	16,376	14,438
New Jersey	27,542	31,690	7,838	7,077	4,718	4,828	8,659	5,746	6,328	14,039
Pennsylvania	122,435	117,146	96,380	94,179	11,204	6,378	133	117	14,718	16,472
Middle Atlantic	**228,746**	**225,432**	**119,803**	**116,510**	**50,302**	**44,137**	**21,219**	**19,836**	**37,422**	**44,949**
Ohio	105,729	105,147	100,468	101,454	288	385	69	82	4,904	3,226
Indiana	70,444	63,398	70,004	62,898	187	258	253	242	—	—
Illinois	99,043	93,553	66,908	61,201	3,143	3,988	970	738	28,021	27,625
Michigan	69,798	67,609	52,016	50,488	666	1,285	733	833	16,383	15,003
Wisconsin	36,990	35,157	27,393	24,571	118	108	181	210	9,299	10,268
East North Central	**382,004**	**364,864**	**316,789**	**300,612**	**4,402**	**6,025**	**2,206**	**2,106**	**58,607**	**56,122**
Minnesota	29,042	27,681	17,054	17,221	28	47	207	216	11,753	10,197
Iowa	21,290	20,928	18,734	18,456	57	56	189	147	2,309	2,269
Missouri	50,989	47,407	50,596	46,910	183	169	210	327	—	—
North Dakota	17,224	15,761	17,182	15,729	42	32	*	(*)	—	—
South Dakota	2,285	2,526	2,274	2,513	11	12	*	*	—	—
Nebraska	15,706	17,057	9,471	8,120	40	65	114	120	6,082	8,753
Kansas	23,768	23,214	19,592	17,778	263	285	3,913	5,150	—	—
West North Central	**160,303**	**154,573**	**134,902**	**126,727**	**625**	**666**	**4,634**	**5,961**	**20,143**	**21,219**
Delaware	9,473	7,016	6,536	4,354	2,419	2,136	517	526	—	—
Maryland	30,880	28,414	15,518	14,242	3,559	3,757	127	70	11,676	10,345
District of Columbia	221	87	—	—	221	87	—	—	—	—
Virginia	36,540	35,687	16,055	16,174	1,522	1,849	290	243	18,674	17,420
West Virginia	72,057	67,857	71,767	67,514	275	325	15	17	—	—
North Carolina	68,552	69,091	55,946	59,804	238	159	5	1	12,363	9,126
South Carolina	42,917	34,398	17,213	20,948	72	257	51	37	25,581	13,156
Georgia	62,514	56,387	54,480	49,464	136	183	124	134	7,774	6,606
Florida	91,302	91,786	28,922	21,694	31,195	33,857	16,380	16,917	14,805	19,319
South Atlantic	**414,457**	**390,722**	**266,437**	**254,192**	**39,638**	**42,610**	**17,510**	**17,947**	**90,872**	**75,973**
Kentucky	54,439	54,768	54,177	54,454	146	169	116	146	—	—
Tennessee	59,489	49,736	45,279	39,479	153	153	7	(*)	14,051	10,104
Alabama	65,030	63,973	39,787	36,170	64	30	35	72	25,145	27,701
Mississippi	13,359	16,971	8,882	9,259	81	205	4,395	7,507	—	—
East South Central	**192,317**	**185,448**	**148,125**	**139,361**	**444**	**557**	**4,552**	**7,724**	**39,195**	**37,805**
Arkansas	26,758	21,373	16,042	10,856	52	89	3,017	2,945	7,646	7,482
Louisiana	37,042	41,535	8,378	4,998	354	946	28,310	35,590	—	—
Oklahoma	43,211	42,837	19,575	17,904	23	28	23,613	24,905	—	—
Texas	205,032	205,305	87,488	78,752	2,020	1,090	115,524	125,463	—	—
West South Central	**312,042**	**311,049**	**131,482**	**112,511**	**2,450**	**2,153**	**170,464**	**188,902**	**7,646**	**7,482**
Montana	3,496	3,896	3,452	3,853	10	10	34	33	—	—
Idaho	1	1	—	—	*	*	*	1	—	—
Wyoming	25,106	26,685	25,054	26,617	40	57	12	11	—	—
Colorado	23,353	23,927	22,243	22,879	54	74	308	405	748	569
New Mexico	27,081	23,679	24,128	19,431	111	146	2,842	4,103	—	—
Arizona	26,902	31,720	24,858	28,670	407	214	1,637	2,837	—	—
Utah	11,030	10,867	10,921	10,635	40	29	69	203	—	—
Nevada	13,280	14,165	12,413	12,619	23	130	843	1,415	—	—
Mountain	**130,248**	**134,940**	**123,069**	**124,703**	**686**	**660**	**5,746**	**9,007**	**748**	**569**
Washington	9,617	9,115	6,111	5,464	10	12	2	9	3,494	3,631
Oregon	4,131	5,537	443	739	4	4	(1)	2	3,685	4,792
California	54,766	63,238	—	—	6,327	9,470	42,826	50,034	5,613	3,735
Pacific	**68,514**	**77,891**	**6,554**	**6,203**	**6,341**	**9,485**	**42,827**	**50,045**	**12,792**	**12,158**
Alaska	3,155	3,036	337	360	461	414	2,356	2,261	—	—
Hawaii	6,485	6,317	—	—	6,485	6,317	—	—	—	—
Alaska & Hawaii	**9,640**	**9,353**	**337**	**360**	**6,946**	**6,731**	**2,356**	**2,261**	**—**	**—**

Note: Total may not equal sum of components due to independent rounding.

† *Excludes generation by geothermal, wood and waste.*

‡ *Beginning 1983 excludes petroleum coke.*

** *Beginning 1983 includes petroleum coke.*

( ) *Denotes negative figure.* * *Less than five hundred thousand kilowatt-hours.*

Source: Energy Information Administration, Form 759.

TABLE 23

CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND KIND OF FUEL

Year	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents*† (Thousand Short Tons)	Net Generation by Fuels* (kWh in Millions)	Heat Rate† (Btu per kWh)	Lbs. of Coal per kWh†
1983	**625,211****	**245,497**	**2,910,767**	**867,621**	**1,678,021**	**10,539**	**0.993**
1982	593,666**	249,771	3,225,518	858,869‡	1,644,062	10,517	0.996
1981	596,936	351,111	3,640,154	922,133‡	1,755,401	10,506	0.992
1980	569,453	420,214	3,681,595	916,952‡	1,753,749	10,489	0.980
1979	527,317	523,256	3,490,517	837,371	1,708,029	10,470	0.981
1978	481,624	635,829	3,188,370	811,814	1,646,163	10,495	0.986
1977	477,215	623,656	3,190,571	798,425	1,648,775	10,449	0.969
1976	448,431	555,583	3,080,627	740,112	1,558,951	10,369	0.950
1975	406,032	506,081	3,157,591	686,236	1,441,611	10,383	0.952
1974	392,344	536,140	3,429,072	685,115	1,449,079	10,481	0.946
1973	388,190	559,842	3,640,756	688,043	1,498,958	10,429	0.918
1972	352,391	493,663	3,976,762	647,968	1,421,136	10,479	0.912
1971	327,878	396,438	3,975,972	599,766	1,307,310	10,536	0.918
1970	320,818	335,504	3,931,996	573,152	1,261,474	10,508	0.909
1969	310,641	251,027	3,487,642	517,937	1,177,127	10,457	0.880
1968	297,779	188,642	3,147,909	475,475	1,093,614	10,371	0.870
1967	274,185	161,278	2,746,352	428,165	984,560	10,396	0.870
1966	266,477	140,949	2,609,949	409,854	943,552	10,399	0.869
1965	244,788	115,203	2,321,101	367,567	857,286	10,384	0.858
1964	225,425	101,141	2,322,896	344,083	803,222	10,407	0.857
1963	211,332	93,314	2,144,473	319,840	747,530	10,438	0.856

**Excludes geothermal, wood, waste, and nuclear fuels.*

***Beginning in 1982, petroleum coke excluded from Coal.*

†EEI estimate.

‡Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of generation data.

Sources: Energy Information Administration, Form 759.

TABLE 24

CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND KIND OF FUEL—YEAR 1983

Division/State	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents**† (Thousand Short Tons)	Net Generation by Fuels** (kWh in Millions)	Heat Rate† (Btu per kWh)	Lbs. of Coal per kWh†
Total United States	**625,211**	**245,497**	**2,910,767**	**867,621**	**1,678,021**	**10,539**	**0.993**
Maine	—	3,516	—	838	2,045	10,785	—
New Hampshire	1,019	2,680	20	1,647	4,090	10,699	0.767
Vermont	28	16	220	40	59	17,414	1.350
Massachusetts	3,413	27,574	24,396	10,973	28,463	10,150	0.740
Rhode Island	—	713	3,079	291	581	13,148	—
Connecticut	—	19,736	—	4,710	11,940	10,380	—
New England	**4,460**	**54,234**	**27,714**	**18,501**	**47,177**	**10,330**	**0.748**
New York	6,711	57,964	135,811	27,009	62,393	10,688	0.861
New Jersey	3,132	8,593	96,886	9,129	21,214	11,061	0.799
Pennsylvania	40,046	19,231	1,654	44,955	107,716	10,329	0.831
Middle Atlantic	**49,889**	**85,789**	**234,351**	**81,093**	**191,323**	**10,529**	**0.833**
Ohio	44,017	626	1,046	44,226	100,824	10,216	0.876
Indiana	33,525	356	2,877	33,752	70,444	10,417	0.958
Illinois	34,265	6,349	11,948	36,798	71,021	10,377	1.024
Michigan	22,872	1,397	12,618	23,442	53,415	10,223	0.879
Wisconsin	15,094	251	3,514	15,345	27,692	10,965	1.102
East North Central	**149,772**	**8,980**	**32,004**	**153,563**	**323,397**	**10,361**	**0.946**
Minnesota	10,703	93	2,861	10,913	17,289	11,243	1.255
Iowa	11,921	155	3,249	12,183	18,981	9,387	1.273
Missouri	24,614	455	2,806	24,870	50,989	10,392	0.973
North Dakota	15,386	98	11	15,434	17,224	11,977	1.791
South Dakota	2,201	42	45	2,223	2,285	12,079	1.936
Nebraska	5,656	80	1,581	5,767	9,624	10,845	1.194
Kansas	12,814	530	47,226	15,615	23,768	11,436	1.308
West North Central	**83,294**	**1,454**	**57,780**	**87,005**	**140,160**	**10,747**	**1.235**
Delaware, Maryland and D.C.	8,921	10,692	6,823	11,658	28,898	10,045	0.809
Virginia	6,577	2,724	3,330	7,387	17,867	10,434	0.819
West Virginia	28,970	418	115	29,073	72,057	9,892	0.807
North Carolina	21,913	464	163	22,027	56,189	9,759	0.783
South Carolina	6,989	140	942	7,061	17,336	10,148	0.812
Georgia	22,778	280	1,633	22,912	54,740	10,052	0.836
Florida	12,435	50,302	174,813	32,197	76,497	12,150	0.860
South Atlantic	**108,584**	**65,021**	**187,819**	**132,315**	**323,585**	**10,476**	**0.815**
Kentucky	24,236	246	1,196	24,350	54,439	10,318	0.895
Tennessee	18,672	291	107	18,750	45,438	9,788	0.825
Alabama	17,164	128	554	17,221	39,886	9,801	0.863
Mississippi	3,802	206	49,773	6,067	13,359	10,715	0.856
East South Central	**63,874**	**871**	**51,629**	**66,388**	**153,121**	**10,064**	**0.862**
Arkansas	9,628	97	33,275	11,666	19,112	10,665	1.200
Louisiana	5,840	672	296,490	25,165	37,042	11,039	1.394
Oklahoma	12,042	51	236,950	26,757	43,211	10,475	1.230
Texas	64,007	3,850	1,190,648	144,720	205,032	10,647	1.463
West South Central	**91,517**	**4,670**	**1,757,363**	**208,307**	**304,396**	**10,672**	**1.392**
Montana	2,356	31	335	2,390	3,496	11,507	1.365
Idaho	—	*	9	1	1	19,121	—
Wyoming	16,135	81	136	16,170	25,106	11,147	1.288
Colorado	12,193	194	4,526	12,450	22,605	11,591	1.096
New Mexico	14,359	234	30,626	16,090	27,081	10,788	1.190
Arizona	12,464	747	19,209	13,618	26,902	10,974	1.003
Utah	5,223	79	1,259	5,299	11,030	10,321	0.957
Nevada	6,115	68	9,562	6,364	13,280	10,790	0.985
Mountain	**68,845**	**1,435**	**65,661**	**72,381**	**129,500**	**11,022**	**1.119**
Washington	4,298	23	30	4,309	6,123	10,302	1.406
Oregon	358	25	1	358	446	11,347	1.618
California	—	11,185	465,066	36,396	49,153	11,168	—
Pacific	**4,656**	**11,233**	**465,097**	**41,062**	**55,722**	**11,064**	**1.421**
Alaska	321	934	31,348	2,650	3,155	12,848	1.904
Hawaii	—	10,876	—	4,355	6,485	10,468	—
Alaska & Hawaii	**321**	**11,811**	**31,348**	**7,005**	**9,640**	**10,862**	**1.904**

Note: Total may not equal sum of components due to independent rounding.

**Less than 500 42-Gallon Barrels.*

***Excludes geothermal, wood, waste, and nuclear fuels.*

†EEI estimate.

Source: Energy Information Administration, Form 759.

TABLE 25

ANALYSIS OF FUEL FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES 1980-1983 BY GEOGRAPHIC DIVISION

		Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division	Year	Cost per Million Btu Consumed	Cost of Fuel per Net kWh	Btu per Net kWh	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
United States	1983p	227.1¢	2.39¢	10,539	172.1¢	$36.20	10,517	480.4¢	$29.92	148,299	349.2¢	358.27¢	1,026
	1982	234.0	2.46	10,517	169.4	35.98	10,621	507.1	31.52	148,000	339.9	351.69	1,034
	1981	230.2	2.42	10,506	158.1	33.71	10,659	535.8	33.11	147,128	280.8	290.50	1,035
	1980	197.0	2.07	10,489	139.9	30.04	10,732	416.2	25.91	147,484	220.4	228.20	1,035
New England	1983p	390.2	4.03	10,330	235.7	62.19	13,153	443.3	27.81	149,381	395.3	414.65	1,049
	1982	411.3	4.21	10,236	247.2	63.56	12,854	463.4	28.94	148,703	404.9	425.05	1,050
	1981	480.9	4.96	10,323	214.0	54.10	12,638	511.6	31.89	148,392	377.2	379.40	1,006
	1980	376.8	3.89	10,317	168.4	43.62	12,953	398.5	24.82	148,291	297.5	300.10	1,009
Middle Atlantic	1983p	280.4	2.95	10,529	167.3	41.46	12,394	477.8	29.74	148,180	419.5	433.35	1,033
	1982	286.7	3.00	10,479	174.6	42.88	12,283	514.9	31.97	147,833	429.3	441.38	1,028
	1981	297.3	3.18	10,704	169.9	40.92	12,043	528.7	32.67	147,103	380.2	392.20	1,032
	1980	243.2	2.59	10,639	142.0	34.39	12,106	428.5	26.45	146,964	298.2	308.00	1,033
East North Central	1983p	193.5	2.00	10,361	183.7	40.70	11,079	711.9	44.41	148,543	475.2	356.47	750
	1982	193.6	2.03	10,522	181.1	40.19	11,093	691.0	43.01	148,211	407.7	351.90	863
	1981	185.5	1.94	10,463	168.7	37.09	10,995	633.8	39.07	146,786	351.5	303.07	862
	1980	168.9	1.77	10,475	151.4	33.28	10,990	474.3	28.99	145,533	288.7	261.60	906
West North Central	1983p	152.9	1.64	10,747	146.9	25.60	8,711	449.4	25.98	137,616	316.3	308.51	991
	1982	141.0	1.56	11,079	134.0	24.20	9,029	509.5	27.46	142,276	262.9	259.18	985
	1981	134.4	1.48	11,000	126.9	23.67	9,326	412.3	24.85	143,511	228.1	225.35	988
	1980	125.0	1.37	10,996	116.8	22.13	9,472	349.8	22.14	147,882	185.8	180.60	972
South Atlantic	1983p	226.2	2.37	10,476	195.0	48.05	12,320	439.7	27.60	138,500	266.9	268.88	1,007
	1982	230.0	2.31	10,072	193.1	46.80	12,119	446.7	27.94	148,902	221.7	224.22	1,011
	1981	234.4	2.38	10,156	179.5	43.32	12,065	475.5	29.54	147,902	190.0	197.95	1,042
	1980	184.6	2.05	10,127	157.1	37.98	12,089	378.4	23.59	148,512	162.9	166.30	1,021
East South Central	1983p	191.9	1.93	10,064	187.2	43.29	11,559	569.4	33.15	137,856	308.6	317.85	1,029
	1982	195.7	1.99	10,172	188.1	44.22	11,750	530.9	32.91	147,610	295.4	302.62	1,024
	1981	181.5	1.84	10,153	174.5	40.53	11,616	393.2	24.04	145,571	257.7	262.68	1,019
	1980	162.5	1.66	10,205	155.9	36.33	11,650	305.1	19.23	150,074	212.2	216.10	1,018
West South Central	1983p	249.0	2.66	10,672	176.0	27.88	7,920	363.3	21.05	137,927	305.8	315.13	1,031
	1982	248.8	2.65	10,649	156.2	24.19	7,739	478.9	28.30	140,731	297.2	308.40	1,037
	1981	214.6	2.28	10,610	140.0	21.40	7,641	489.1	30.30	147,528	242.5	250.96	1,035
	1980	173.1	1.84	10,609	118.9	17.97	7,560	370.9	23.13	148,485	184.8	192.30	1,041
Mountain	1983p	121.0	1.33	11,022	107.7	21.28	9,874	516.8	31.23	143,893	390.4	368.77	945
	1982	123.7	1.36	11,051	104.4	20.49	9,808	512.3	30.87	143,486	358.2	368.61	1,028
	1981	121.0	1.33	10,964	93.0	18.16	9,767	491.8	29.53	142,987	291.3	299.95	1,030
	1980	111.4	1.22	10,972	81.4	15.56	9,562	417.1	27.27	146,696	246.5	253.90	1,030
Pacific	1983p	491.8	5.44	11,064	149.3	22.79	7,636	760.8	47.18	147,649	510.8	534.35	1,046
	1982	506.4	5.50	10,871	121.5	19.65	8,038	743.3	44.61	142,911	501.1	526.18	1,050
	1981	452.7	4.81	10,626	116.6	18.79	8,055	667.2	40.33	143,913	394.6	415.48	1,053
	1980	393.9	4.12	10,452	90.5	14.68	8,113	497.9	30.49	145,788	350.1	368.80	1,053
Alaska	1983p	280.6	3.61	12,848	174.5	27.26	7,811	687.8	37.11	128,465	137.0	136.98	1,000
	1982	116.6	1.76	15,135	132.5	20.30	7,658	549.5	27.64	135,550	79.2	79.20	1,000
	1981	137.9	2.11	15,313	190.0	30.63	8,035	879.1	51.28	138,883	99.5	99.50	1,000
	1980	105.1	1.66	15,801	190.5	30.63	8,035	399.3	25.59	133,791	83.6	83.60	1,000
Hawaii	1983p	547.4	5.73	10,468	—	—	—	547.4	34.24	148,933	—	—	—
	1982	661.9	6.97	10,529	—	—	—	661.9	41.53	149,453	—	—	—
	1981	659.0	6.98	10,598	—	—	—	659.0	40.96	147,992	—	—	—
	1980	378.2	4.05	10,718	—	—	—	378.2	23.72	149,321	—	—	—

p Preliminary.

(a) Coal includes bituminous and anthracite coal and relatively small amounts of coke, lignite, and wood.

(b) Oil includes fuel oil, crude oil, and small amounts of tar and gasoline.

(c) Gas includes natural and manufactured gas and waste gas.

TABLE 26

ANALYSIS OF FUEL FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES

1983p BY STATE

	Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division/State	Cost per Million Btu Consumed	Cost of Fuel per Net kWh	Btu per Net kWh	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
Total United States	**227.1¢**	**2.39¢**	**10,539**	**172.1¢**	**$36.20**	**10,517**	**480.4¢**	**$29.92**	**148,299**	**349.2¢**	**358.27¢**	**1,026**
Maine	474.7	5.12	10,785	—	—	—	474.7	29.78	149,342	—	—	—
New Hampshire	284.3	3.04	10,699	198.4	53.20	13,408	421.6	26.46	149,447	—	—	—
Vermont	306.3	5.33	17,414	218.3	56.18	12,870	727.7	42.47	138,960	425.0	425.00	1,000
Massachusetts	370.9	3.77	10,150	247.1	64.89	13,132	431.7	27.07	149,293	397.5	418.19	1,052
Rhode Island	417.7	5.49	13,148	—	—	—	447.5	28.19	149,979	375.5	386.42	1,029
Connecticut	456.5	4.74	10,380	—	—	—	456.5	28.66	149,489	—	—	—
New England	**390.2**	**4.03**	**10,330**	**235.7**	**62.19**	**13,153**	**443.3**	**27.81**	**149,381**	**395.3**	**414.65**	**1,049**
New York	391.8	4.19	10,688	189.9	46.79	12,318	471.3	29.31	148,063	425.8	437.78	1,028
New Jersey	361.2	4.00	11,061	214.7	55.29	12,879	490.6	30.66	148,811	409.4	425.84	1,040
Pennsylvania	195.4	2.02	10,329	159.6	39.47	12,369	491.9	30.63	148,253	533.5	546.46	1,024
Middle Atlantic	**280.4**	**2.95**	**10,529**	**167.3**	**41.46**	**12,394**	**477.8**	**29.74**	**148,180**	**419.5**	**433.35**	**1,033**
Ohio	176.9	1.81	10,216	176.2	41.44	11,756	566.9	34.81	146,197	526.7	539.42	1,024
Indiana	161.3	1.68	10,417	159.7	34.75	10,876	585.3	33.88	137,820	423.8	424.84	1,002
Illinois	244.4	2.54	10,377	212.5	44.00	10,353	768.3	48.60	150,601	525.6	541.02	1,029
Michigan	201.1	2.06	10,223	193.3	46.66	12,070	511.1	30.79	143,421	443.3	187.55	423
Wisconsin	187.2	2.05	10,965	182.8	35.90	9,820	578.9	32.97	135,620	415.5	414.72	998
East North Central	**193.5**	**2.00**	**10,361**	**183.7**	**40.70**	**11,079**	**711.9**	**44.41**	**148,543**	**475.2**	**356.47**	**750**
Minnesota	147.0	1.64	11,136	143.6	25.42	8,851	315.2	18.68	141,127	400.3	405.70	1,000
Iowa	206.7	1.94	9,387	202.9	30.71	7,566	661.3	30.37	109,367	388.6	394.69	1,000
Missouri	157.9	1.64	10,392	155.9	33.07	10,607	537.3	31.11	137,867	467.4	404.33	1,000
North Dakota	87.0	1.03	11,834	86.1	11.33	6,583	519.5	30.81	141,195	439.0	466.67	1,063
South Dakota	123.0	1.49	12,079	120.5	15.54	6,448	456.3	26.91	140,418	399.4	392.11	982
Nebraska	136.0	1.48	10,849	132.0	23.46	8,890	568.0	32.76	137,330	322.6	308.68	957
Kansas	169.9	1.94	11,436	147.5	26.01	8,817	326.3	20.04	146,264	298.3	291.61	977
West North Central	**152.9**	**1.64**	**10,747**	**146.9**	**25.60**	**8,711**	**449.4**	**25.98**	**137,616**	**316.3**	**308.51**	**991**
Delaware, Maryland and D.C.	258.8	2.70	10,413	195.1	49.40	12,661	478.0	29.80	138,596	460.3	445.08	1,035
Virginia	207.1	2.16	10,434	178.4	44.92	12,593	457.3	28.42	147,969	435.5	451.10	1,035
West Virginia	175.4	1.73	9,892	175.3	43.54	12,418	654.2	38.45	139,965	—	—	—
North Carolina	193.6	1.89	9,759	192.2	47.89	12,457	615.6	28.83	136,600	465.2	436.31	1,035
South Carolina	201.3	2.05	10,159	198.9	49.63	12,477	558.3	32.83	140,000	551.2	566.28	1,027
Georgia	196.1	1.97	10,052	194.9	46.83	12,014	518.1	28.63	131,555	441.7	434.47	1,025
Florida	318.1	3.86	12,150	239.6	57.56	12,012	430.4	27.12	138,500	252.8	254.99	1,042
South Atlantic	**230.8**	**2.42**	**10,505**	**195.0**	**48.05**	**12,320**	**439.7**	**27.60**	**138,500**	**266.9**	**268.88**	**1,007**
Kentucky	164.5	1.70	10,318	164.3	37.98	11,561	649.3	37.59	138,000	374.3	383.57	1,025
Tennessee	180.9	1.77	9,788	180.6	42.34	11,723	384.5	22.62	140,077	379.4	392.25	1,034
Alabama	218.0	2.14	9,801	217.5	49.46	11,368	402.4	23.40	138,000	434.8	475.05	1,030
Mississippi	261.4	2.80	10,715	232.2	53.74	11,573	713.3	41.30	137,856	306.5	315.49	1,029
East South Central	**191.9**	**1.93**	**10,064**	**187.2**	**43.29**	**11,559**	**569.4**	**33.15**	**137,856**	**308.6**	**317.85**	**1,029**
Arkansas	209.5	2.23	10,665	181.8	31.22	8,588	596.2	36.08	144,107	318.7	329.54	1,034
Louisiana	297.9	3.29	11,039	236.8	38.58	8,147	691.1	39.74	136,919	315.6	331.12	1,049
Oklahoma	206.9	2.17	10,475	170.8	28.99	8,488	519.9	28.60	130,953	237.7	247.99	1,053
Texas	251.7	2.68	10,647	169.1	26.01	7,691	305.1	17.68	137,977	316.5	324.02	1,024
West South Central	**249.0**	**2.66**	**10,672**	**176.0**	**27.88**	**7,920**	**363.3**	**21.05**	**137,927**	**305.8**	**315.13**	**1,031**
Montana	73.5	0.85	11,507	72.0	12.02	8,348	342.8	19.68	136,666	108.5	129.14	1,190
Idaho	518.5	9.91	19,121	—	—	—	528.6	31.08	140,000	517.2	542.00	1,048
Wyoming	99.2	1.11	11,147	98.3	17.00	8,652	648.2	37.92	139,280	477.7	496.32	1,039
Colorado	110.9	1.29	11,591	105.5	22.28	10,554	498.7	29.27	139,755	382.1	361.07	945
New Mexico	114.5	1.23	10,788	89.1	16.43	9,222	593.5	35.22	141,305	364.1	363.20	997
Arizona	139.8	1.53	10,974	120.5	25.84	10,719	485.7	29.96	146,862	312.7	327.79	1,048
Utah	142.5	1.47	10,321	139.2	30.66	11,015	604.4	35.54	140,000	305.7	290.61	951
Nevada	154.5	1.67	10,790	126.6	28.18	11,134	600.9	34.89	138,238	931.2	502.19	539
Mountain	**121.0**	**1.33**	**11,022**	**107.7**	**21.28**	**9,874**	**516.8**	**31.23**	**143,893**	**390.4**	**368.77**	**945**
Washington	145.2	1.50	10,302	143.0	21.70	7,587	783.1	45.93	139,646	2,899.7	2,908.34	1,003
Oregon	230.5	2.62	11,347	231.0	38.52	8,339	—	—	—	—	—	—
California	539.2	6.02	11,168	—	—	—	761.1	47.21	147,672	510.7	534.20	1,046
Pacific	**491.8**	**5.44**	**11,064**	**149.3**	**22.79**	**7,636**	**760.8**	**47.18**	**147,649**	**510.8**	**534.35**	**1,046**
Alaska	280.6	3.61	12,848	174.5	27.26	7,811	687.8	37.11	128,465	137.0	136.98	1,000
Hawaii	547.4	5.73	10,468	—	—	—	547.4	34.24	148,933	—	—	—
Alaska & Hawaii	**495.2**	**5.38**	**10,862**	**174.5**	**27.26**	**7,811**	**555.2**	**34.42**	**147,635**	**137.0**	**136.98**	**1,000**

See page 34 for footnotes.

TABLE 27

AVERAGE COST OF FOSSIL FUELS DELIVERED TO STEAM-ELECTRIC UTILITY PLANTS

BY YEARS

(CENTS PER MILLION BTU)

Year	Coal	Residual Oil*	Natural Gas**	All Fossil Fuels**
1983	165.6	457.8	347.4	220.6
1982	164.7	483.2r	337.6r	224.9r
1981	153.2	533.4r	280.5r	225.6r
1980	135.1	426.7r	219.9r	192.8r
1979	122.4	298.8r	174.9r	163.9r
1978	111.6	212.5r	142.2r	141.1r

*Residual fuel oil prices include Fuel Oil No. 4, No. 5, No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices.

**Includes small quantities of coke oven gas, refinery gas and blast furnace gas.

r Revised.

Source: Energy Information Administration, Monthly Energy Review.

ENERGY

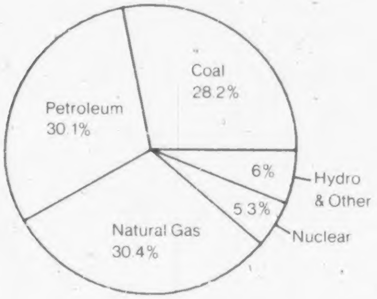
SECTION V

CHART V-A

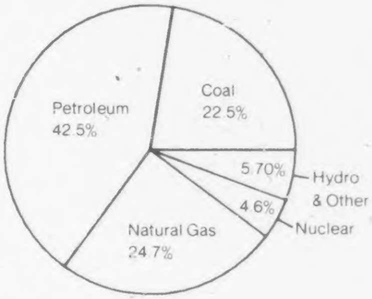
ENERGY PRODUCTION AND CONSUMPTION

BY PRIMARY ENERGY SOURCE

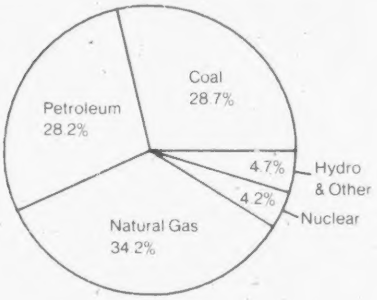
1983 Production
Total BTU's = 61.173 Quads



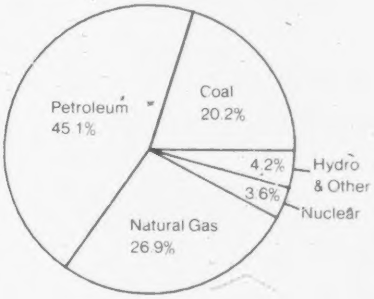
1983 Consumption
Total BTU's = 70.664 Quads



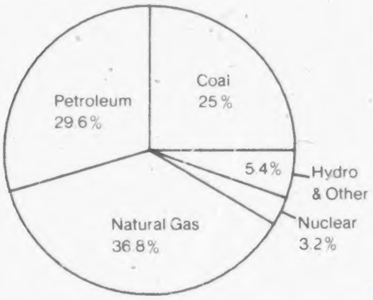
1980 Production
Total BTU's = 64.708 Quads



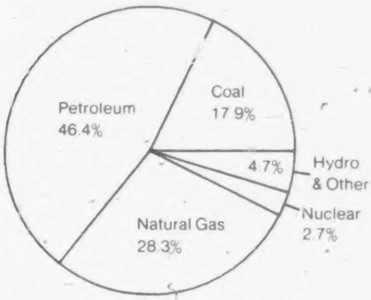
1980 Consumption
Total BTU's = 75.900 Quads



1975 Production
Total BTU's = 59.801 Quads



1975 Consumption
Total BTU's = 70.485 Quads



Source: 'Monthly Energy Review' June, 1984.

TABLE 31

ENERGY SUPPLY AND DISPOSITION BALANCE BY YEARS

(QUADRILLION BTU)

	1983p	1982r	1981	1980	1979	1978	1977	1976	1975	1974	1973
SUPPLY											
Production											
Crude Oil & Lease Condensate	18.32	18.31	18.15	18.25	18.10	18.43	17.45	17.26	17.73	18.57	19.49
Natural Gas Plant Liquids	2.20	2.19	2.31	2.25	2.29	2.25	2.33	2.33	2.37	2.47	2.57
Natural Gas	16.34	18.25	19.70r	19.91r	20.08	19.49	19.57	19.48	19.64	21.21	22.19
Coal	17.29	18.60	18.33r	18.54r	17.48r	14.86r	15.68r	15.65r	14.93r	14.01r	13.93r
Nuclear	3.22	3.11	3.01r	2.74	2.78r	3.02	2.70	2.11	1.90	1.27	0.91
Hydro	3.51	3.27	2.76r	2.90	2.93	2.94	2.33	2.98	3.15	3.18	2.86
Other	0.14	0.11	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06	0.05
Total Production	**61.02**	**63.85**	**64.38r**	**64.71r**	**63.74r**	**61.05r**	**60.14r**	**59.89r**	**59.80r**	**60.77r**	**61.99r**
Imports											
Crude Oil	7.02	7.42	9.34	11.19	13.83	13.46	14.03	11.24	8.72	7.40	6.89
Refined Petroleum Products	3.48	3.36	3.30	3.46	4.11	4.36	4.73	4.43	4.23	5.73	6.58
Natural Gas	0.96	0.95	0.92	1.01	1.30	0.99	1.04	0.99	0.98	0.99	1.06
Other	0.42	0.38	0.42r	0.31	0.39	0.44	0.30	0.18	0.19	0.31	0.21
Total Imports	**11.88**	**12.11**	**13.98r**	**15.97**	**19.62**	**19.26**	**20.09**	**16.84**	**14.11**	**14.42**	**14.73**
Adjustments	1.28	(0.51)	(0.08)r	(1.05)r	(1.65)r	(0.34)r	(1.95)r	(0.24)r	(1.07)r	(0.48)r	(0.46)r
Total Supply	**74.18**	**75.45**	**78.27r**	**79.63r**	**81.72r**	**79.97r**	**78.29r**	**76.49r**	**72.84r**	**74.70r**	**76.27r**
DISPOSITION											
Exports											
Coal	2.04	2.79	2.94	2.42	1.75r	1.08r	1.44r	1.60r	1.76r	1.62r	1.43r
Other	1.68	1.85	1.39r	1.31	1.12	0.85	0.63	0.59	0.60	0.60	0.63
Total Exports	**3.72**	**4.63**	**4.33r**	**3.73**	**2.87r**	**1.93r**	**2.07r**	**2.19r**	**2.36r**	**2.22r**	**2.05r**
Consumption											
Refined Petroleum Products	29.98	30.23	31.93	34.20	37.12	37.97	37.12	35.17	32.73	33.45	34.84
Natural Gas	17.43	18.51	19.93	20.39	20.67	20.00	19.93	20.35	19.95	21.73	22.51
Coal	15.85	15.29	15.86r	15.37r	14.98r	13.71r	13.85r	13.52r	12.60r	12.60r	12.90r
Nuclear	3.22	3.11	3.01r	2.74	2.78r	3.02	2.70	2.11	1.90	1.27	0.91
Hydro	3.86	3.59	3.11r	3.12	3.14	3.14	2.51	3.07	3.22	3.31	3.01
Other	0.14	0.11	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06	0.05
Net Imports of Coal Coke	(0.02)	(0.02)	(0.02)	(0.04)	0.07	0.13	0.02	*	0.01	0.06	(0.01)
Total Consumption	**70.45**	**70.82**	**73.94r**	**75.90r**	**78.84r**	**78.04r**	**76.21r**	**74.30r**	**70.48r**	**72.48r**	**74.21r**
Total Disposition	**74.18**	**75.45**	**78.27r**	**79.63r**	**81.72r**	**79.97r**	**78.29r**	**76.49r**	**72.84r**	**74.70r**	**76.27r**

	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963
SUPPLY										
Production										
Crude Oil & Lease Condensate	20.04	20.03	20.40	19.56	19.31	18.65	17.56	16.52	16.16	15.97
Natural Gas Plant Liquids	2.60	2.54	2.51	2.42	2.32	2.18	2.00	1.88	1.80	1.71
Natural Gas	22.21	22.28	21.67	20.45	19.07	17.94	17.01	15.78	15.30	14.51
Coal	14.03r	13.13r	14.53r	14.20	13.93	14.19	13.82	13.38	12.83	12.15
Nuclear	0.58	0.41	0.24	0.15	0.14	0.09	0.06	0.04	0.04	0.04
Hydro	2.86	2.82	2.63	2.65	2.35	2.35	2.06	2.06	1.89	1.77
Other	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Total Production	**62.36r**	**61.23r**	**62.00r**	**59.44**	**57.13**	**55.41**	**52.52**	**49.67**	**48.03**	**46.16**
Imports										
Crude Oil	4.71	3.57	2.81	2.99	2.76	2.40	2.62	2.65	2.58	2.43
Refined Petroleum Products	5.59	4.97	4.66	3.91	3.46	3.15	3.01	2.75	2.38	2.22
Natural Gas	1.05	0.96	0.85	0.75	0.67	0.58	0.50	0.47	0.46	0.42
Other	0.11	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.07	0.03
Total Imports	**11.46**	**9.58**	**8.39**	**7.71**	**6.93**	**6.19**	**6.18**	**5.92**	**5.49**	**5.10**
Adjustments	(0.48)r	(0.82)r	(1.36)r	(0.47)	(0.71)	(1.56)	(0.85)	(0.74)	(0.90)	(0.80)
Total Supply	**73.33r**	**70.00r**	**69.02r**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**	**50.46**
DISPOSITION										
Exports										
Coal	1.53	1.55	1.94	1.53	1.38	1.35	1.35	1.38	1.34	1.36
Other	0.61	0.63	0.73	0.62	0.65	0.79	0.50	0.48	0.51	0.49
Total Exports	**2.14**	**2.18**	**2.66**	**2.15**	**2.03**	**2.15**	**1.85**	**1.86**	**1.85**	**1.85**
Consumption										
Refined Petroleum Products	32.95	30.56	29.52	28.34	26.98	25.28	24.40	23.25	22.30	21.70
Natural Gas	22.70	22.47	21.79	20.68	19.21	17.94	17.00	15.77	15.29	14.40
Coal	12.01r	11.54r	12.19r	12.72	12.66	12.24	12.48	11.89	11.25	10.69
Nuclear	0.58	0.41	0.24	0.15	0.14	0.09	0.06	0.04	0.04	0.04
Hydro	2.94	2.86	2.65	2.66	2.34	2.34	2.07	2.06	1.91	1.77
Other	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Net Imports of Coal Coke	(0.03)	(0.03)	(0.06)	(0.04)	(0.02)	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)
Total Consumption	**71.19r**	**67.82r**	**66.36r**	**64.53**	**61.32**	**57.89**	**55.99**	**52.99**	**50.78**	**48.61**
Total Disposition	**73.33r**	**70.00r**	**69.02r**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**	**50.46**

*Less than .005 Quadrillion BTU.
( ) Denotes negative figure. p Preliminary. r Revised.

Note: Sum of components may not equal total due to independent rounding.
Source: Energy Information Administration, 1983 Annual Energy Review.

TABLE 32

ANNUAL PRODUCTION OF ENERGY RESOURCES BY YEARS

(QUADRILLION BTU)

Year	Coal'	Natural Gas*	Natural Gas Plant Liquids	Petroleum**	Hydro	Nuclear	Other†	Total'
1983p	**17.29**	**16.34**	**2.20**	**18.32**	**3.51**	**3.22**	**0.13**	**61.02**
1982r	18.60	18.25	2.19	18.31	3.27	3.11	0.10	63.85
1981r	18.33	19.70	2.31	18.15	2.76	3.01	0.12	64.38
1980r	18.54	19.91	2.25	18.25	2.90	2.74	0.11	64.71
1979	17.48	20.08	2.29	18.10	2.93	2.78r	0.09	63.74
1978	14.86	19.49	2.25	18.43	2.94	3.02	0.06	61.05
1977	15.68	19.57	2.33	17.45	2.33	2.70	0.09	60.14
1976	15.65	19.48	2.33	17.26	2.98	2.11	0.08	59.89
1975	14.93	19.64	2.37	17.73	3.15	1.90	0.07	59.80
1974	14.01	21.21	2.47	18.57	3.18	1.27	0.05	60.77
1973	13.93	22.19	2.57	19.49	2.86	0.91	0.04	61.99
1972	14.03	22.21	2.60	20.04	2.86	0.58	0.03	62.36
1971	13.13	22.28	2.54	20.03	2.82	0.41	0.01	61.23
1970	14.53	21.67	2.51	20.40	2.63	0.24	0.01	62.00
1969	13.80	20.45	2.42	19.56	2.65	0.15	0.01	59.04
1968	13.55	19.07	2.32	19.31	2.35	0.14	0.01	56.75
1967	13.76	17.94	2.18	18.65	2.35	0.09	0.01	54.98
1966	13.40	17.01	2.00	17.56	2.06	0.06	‡	52.10
1965	12.99	15.78	1.88	16.52	2.06	0.04	‡	49.28
1964	12.46	15.30	1.80	16.16	1.89	0.04	‡	47.66
1963	11.80	14.51	1.71	15.97	1.77	0.04	‡	45.80

**Dry market natural gas.*

***Crude oil and lease condensate.*

†Includes geothermal, wood and waste.

‡Less than .005 Quadrillion BTU.

p Preliminary r Revised. All coal data prior to 1983 revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, 1983 Annual Energy Review.

TABLE 33

TOTAL ENERGY CONSUMPTION BY YEARS

(QUADRILLION BTU)

Year	Coal[r]	Natural Gas (Dry)	Petroleum*	Hydro	Nuclear	Other**	Total[r]
1983p	**15.85**	**17.43**	**29.98**	**3.86**	**3.22**	**0.11**	**70.45**
1982r	15.29	18.51	30.23	3.59	3.11	0.08	70.82
1981	15.86	19.93	31.93	3.11r	3.01r	0.10	73.94
1980	15.37	20.39	34.20	3.12	2.74	0.07	75.90
1979	14.98	20.67	37.12	3.14	2.78r	0.16	78.84
1978	13.71	20.00	37.97	3.14	3.02	0.19	78.04
1977	13.85	19.93	37.12	2.51	2.70	0.11	76.21
1976	13.52	20.35	35.17	3.07	2.11	0.08	74.30
1975	12.60	19.95	32.73	3.22	1.90	0.08	70.48
1974	12.60	21.73	33.45	3.31	1.27	0.11	72.48
1973	12.90	22.51	34.84	3.01	0.91	0.03	74.21
1972	12.01	22.70	32.95	2.94	0.58	0.00	71.19
1971	11.54	22.47	30.56	2.86	0.41	(0.02)	67.82
1970	12.19	21.79	29.52	2.65	0.24	(0.05)	66.36
1969	12.31	20.68	28.34	2.66	0.15	(0.03)	64.12
1968	12.27	19.21	26.98	2.34	0.14	(0.01)	60.94
1967	11.85	17.94	25.28	2.34	0.09	(0.01)	57.50
1966	12.08	17.00	24.40	2.07	0.06	(0.03)	55.59
1965	11.51	15.77	23.25	2.06	0.04	(0.02)	52.62
1964	10.91	15.29	22.30	1.91	0.04	(0.01)	50.44
1963	10.36	14.40	21.70	1.77	0.04	(0.01)	48.27

*Refined pretroleum products supplied including natural gas plant liquids and crude oil burned as fuel.

**Includes geothermal, wood and waste and net imports of coal coke.

( ) Denotes negative figure.

p Preliminary r Revised. All coal data prior to 1983 revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, 1983 Annual Energy Review

TABLE 34

ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES

BY KIND OF FUEL, BY SECTOR*
(QUADRILLION BTU)

	1983p	1982r	1981r	1980r	1979r	1978r
Coal						
Residential & Commercial	0.19	0.19	0.17	0.15	0.19	0.22
Industrial	2.46	2.52	3.11	3.10	3.53	3.26
Transportation	**	**	**	**	**	**
Electric Utilities	13.23	12.58	12.58	12.12	11.26	10.24
Total	15.88	15.29	15.86	15.37	14.98	13.71
Natural Gas (Dry)						
Residential & Commercial	7.24	7.43	7.25	7.54	7.89	7.62
Industrial	6.64	7.12	8.27	8.39	8.55	8.54
Transportation	0.58	0.61	0.66	0.65	0.61	0.54
Electric Utilities	3.01	3.34	3.76	3.81	3.61	3.30
Total	17.48	18.51	19.93	20.39	20.67	20.00
Petroleum						
Residential & Commerical	2.35	2.45	2.63	3.04	3.45	4.07
Industrial	7.76	7.80	8.30	9.52	10.58	9.89
Transportation	18.43	18.42	18.80	19.01	19.82	20.02
Electric Utilities	1.54	1.57	2.20	2.63	3.28	3.99
Total	30.08	30.23	31.93	34.20	37.12	37.97

*Sector data excludes electricity sales and energy losses attributed to electric generation.

**Since 1976 the amount of coal consumed by the transportation sector has been negligible.

p Preliminary. Total consumption by fuels will not agree with Energy Supply and Disposition Balance (Table 31) and Total Energy Consumption (Table 33) due to data revisions.

r Revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, Monthly Energy Review.

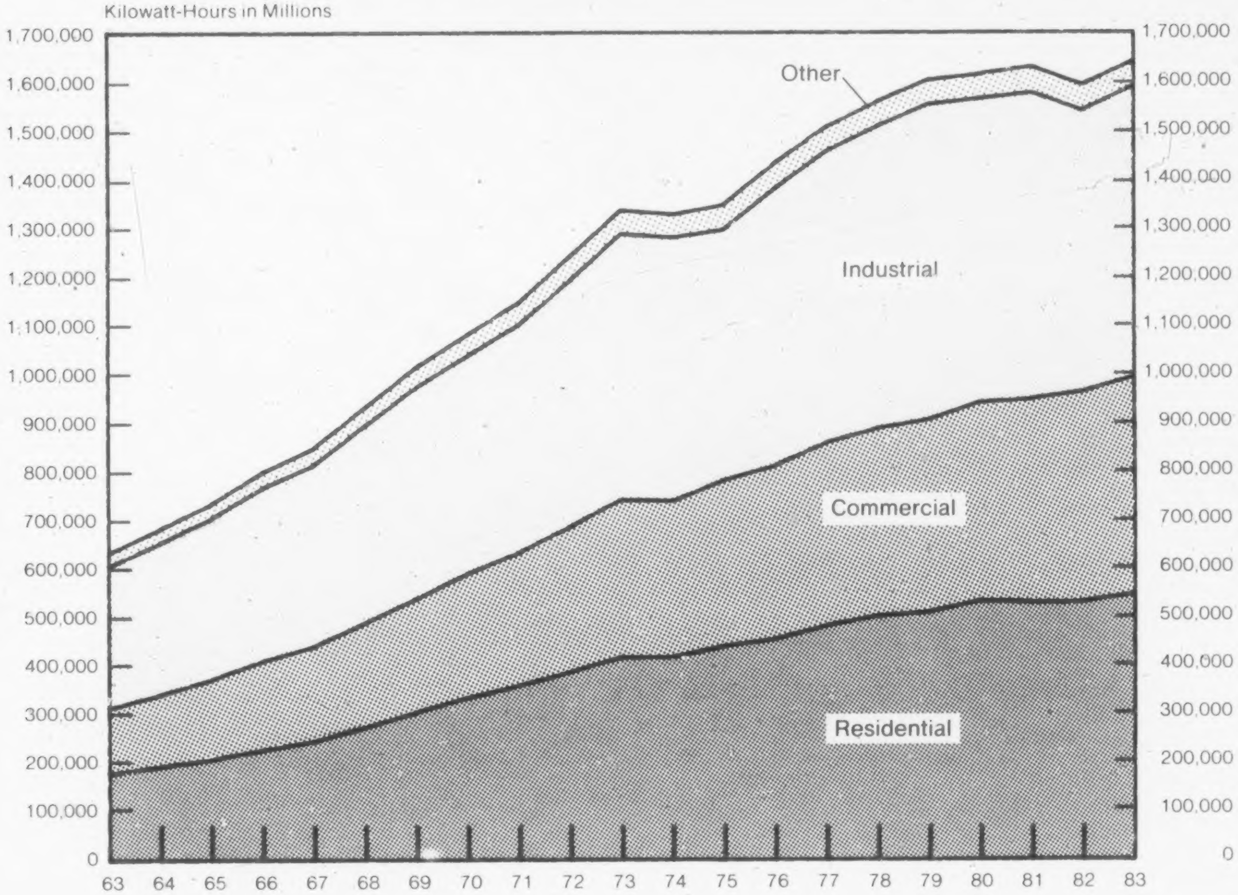
ENERGY SALES

SECTION VI

CHART VI-A

SALES TO ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



Based on Table 39, page 43.

TABLE 38

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE
KILOWATT-HOURS IN MILLIONS

Year	Total Sales	Exports to Canada and Mexico	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1983p	**2,160,935**	**3,337**	**2,157,598**	**750,850**	**546,252**	**780,020**	**14,052**	**56,720**	**4,296**	**5,407**
1982r	2,103,281	3,540	2,099,741	732,678	516,959	770,398	14,236	55,745	4,288	5,438
1981	2,152,506	1,832	2,150,674	730,479	521,698	819,641	14,683	53,737	4,206	6,230
1980	2,130,190	4,096	2,126,094	734,411	524,122	793,812	14,832	48,284	4,275	6,358
1979	2,086,582	2,182	2,084,400	695,996	494,723	817,617	14,792	49,604	4,256	7,412
1978	2,020,004	2,186	2,017,818	679,156	480,748	782,141	14,803	49,509	4,336	7,125
1977	1,953,535	2,744	1,950,791	652,345	469,227	757,168	14,418	46,242	4,212	7,179
1976	1,852,003	2,378	1,849,625	613,072	440,625	725,169	14,413	45,625	4,338	6,383
1975	1,738,107	5,083	1,733,024	586,149	418,069	661,558	13,907	43,625	4,273	5,443
1974	1,703,495	2,726	1,700,769	554,960	392,716	689,435	13,313	40,721	4,258	5,366
1973	1,705,773	2,570	1,703,203	554,171	396,903	687,235	12,836	42,340	4,186	5,532
1972	1,580,466	2,752	1,577,714	511,423	361,859	639,467	12,193	43,190	4,440	5,142
1971	1,469,955	3,514	1,466,441	479,080	333,752	592,700	11,673	39,819	4,537	4,880
1970	1,395,568	4,209	1,391,359	447,795	312,750	572,522	11,183	37,816	4,633	4,660
1969	1,311,008	3,830	1,307,178	407,922	286,686	557,220	10,772	35,861	4,531	4,186
1968	1,206,606	4,285	1,202,321	367,692	265,151	518,834	10,302	32,162	4,540	3,640
1967	1,111,373	4,350	1,107,023	331,525	242,492	486,043	9,863	29,426	4,572	3,102
1966	1,042,158	3,176	1,038,982	306,572	225,878	465,077	9,240	25,922	4,514	1,779
1965	957,113	3,699	953,414	280,970	202,112	433,365	8,782	21,675	4,652	1,858
1964	894,609	4,253	890,356	262,010	183,539	409,356	8,290	20,651	4,721	1,789
1963	832,796	1,985	830,811	241,692	166,516	388,399	7,748	20,194	4,667	1,595

Note: Total may not equal sum of components due to independent rounding.
**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 39

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE
KILOWATT-HOURS IN MILLIONS

Year	Total Sales	Sales for Resale†	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1983p	**1,750,039**	**109,540**	**1,640,499**	**546,114**	**446,036**	**596,740**	**10,449**	**36,414**	**1,929**	**2,817**
1982r	1,701,020	109,796	1,591,224	530,713	431,598	576,380	10,716	36,967	1,924	2,925
1981	1,745,234	116,248	1,628,986	527,119	420,014	628,481	10,918	37,623	1,939	2,892
1980	1,732,553	118,745	1,613,808	532,025	408,265	623,472	10,820	34,449	2,156	2,621
1979	1,719,640	117,408	1,602,232	509,655	394,511	648,031	10,854	34,165	2,103	2,913
1978	1,675,477	118,716	1,556,761	501,409	384,726	620,470	11,042	34,386	2,085	2,643
1977	1,619,820	115,409	1,504,411	481,167	375,903	598,042	10,912	33,208	2,450	2,729
1976	1,530,286	99,496	1,430,790	453,774	355,555	569,134	11,276	34,810	3,930	2,311
1975	1,447,147	101,273	1,345,874	439,496	340,082	515,798	10,868	33,528	4,158	1,944
1974	1,418,958	93,201	1,325,757	416,333	319,706	542,234	10,409	30,876	4,161	2,038
1973	1,417,386	82,990	1,334,396	416,851	323,018	545,912	10,034	32,452	4,086	2,043
1972	1,316,379	76,572	1,239,807	386,561	297,028	507,080	9,581	33,491	4,333	1,733
1971	1,215,614	70,009	1,145,605	358,564	272,703	468,512	9,206	30,618	4,424	1,578
1970	1,142,777	63,032	1,079,745	333,895	254,684	447,664	8,814	28,721	4,520	1,447
1969	1,070,721	58,641	1,012,080	304,497	232,965	433,422	8,441	26,928	4,417	1,410
1968	984,542	55,572	928,970	272,792	215,090	403,468	8,089	23,908	4,424	1,199
1967	890,755	45,334	845,421	244,416	194,772	371,319	7,695	21,726	4,445	1,048
1966	840,093	43,776	796,317	226,727	182,923	354,759	7,299	19,427	4,403	779
1965	770,804	39,471	731,333	207,580	164,354	329,541	6,943	17,683	4,543	689
1964	717,951	37,980	679,971	192,855	148,050	310,678	6,592	16,580	4,606	610
1963	665,808	35,160	630,648	178,157	133,679	291,542	6,251	15,859	4,567	593

Note: Total may not equal sum of components due to independent rounding.
† To non-investor-owned electric utilities and exports.
**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 40

ENERGY SALES IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE

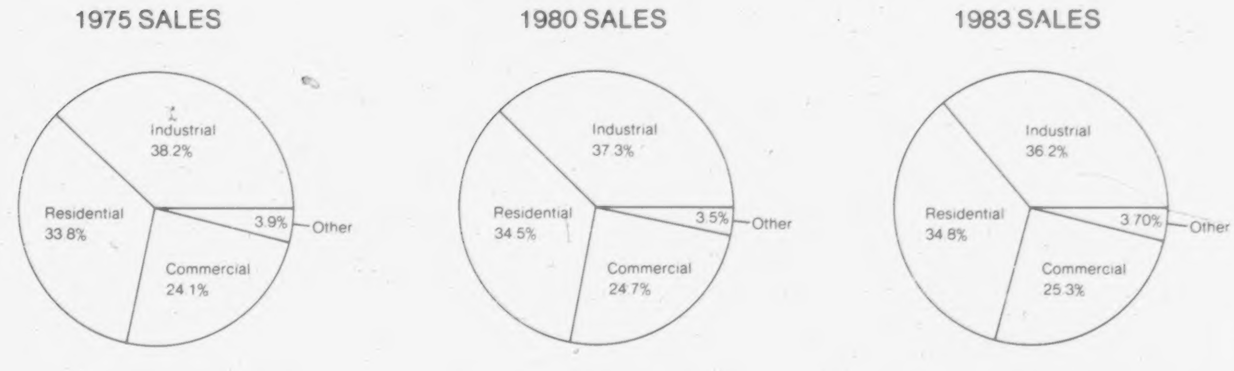
Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
1983p	**34.8%**	**25.3%**	**36.2%**	**0.7%**	**2.6%**	**0.2%**	**0.2%**
1982r	34.9	24.6	36.7	0.7	2.7	0.2	0.2
1981	34.0	24.2	38.1	0.7	2.5	0.2	0.3
1980	34.5	24.7	37.3	0.7	2.3	0.2	0.3
1979	33.4	23.7	39.2	0.7	2.4	0.2	0.4
1978	33.7	23.8	38.8	0.7	2.4	0.2	0.4
1977	33.4	24.1	38.8	0.7	2.4	0.2	0.4
1976	33.2	23.8	39.2	0.8	2.5	0.2	0.3
1975	33.8	24.1	38.2	0.8	2.5	0.3	0.3
1974	32.6	23.1	40.5	0.8	2.4	0.3	0.3
1973	32.5	23.3	40.4	0.8	2.5	0.2	0.3
1972	32.4	23.0	40.5	0.8	2.7	0.3	0.3
1971	32.7	22.8	40.4	0.8	2.7	0.3	0.3
1970	32.2	22.5	41.2	0.8	2.7	0.3	0.3
1969	31.2	21.9	42.7	0.8	2.7	0.4	0.3
1968	30.6	22.1	43.1	0.8	2.7	0.4	0.3
1967	29.9	21.9	43.9	0.9	2.7	0.4	0.3
1966	29.5	21.7	44.8	0.9	2.5	0.4	0.2
1965	29.5	21.2	45.4	0.9	2.3	0.5	0.2
1964	29.4	20.6	46.0	0.9	2.3	0.6	0.2
1963	29.1	20.0	46.8	0.9	2.4	0.6	0.2

Based on Table 38. *p Preliminary.* *r Revised.*

CHART VI-B

ENERGY SALES

BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
KILOWATT-HOURS IN MILLIONS



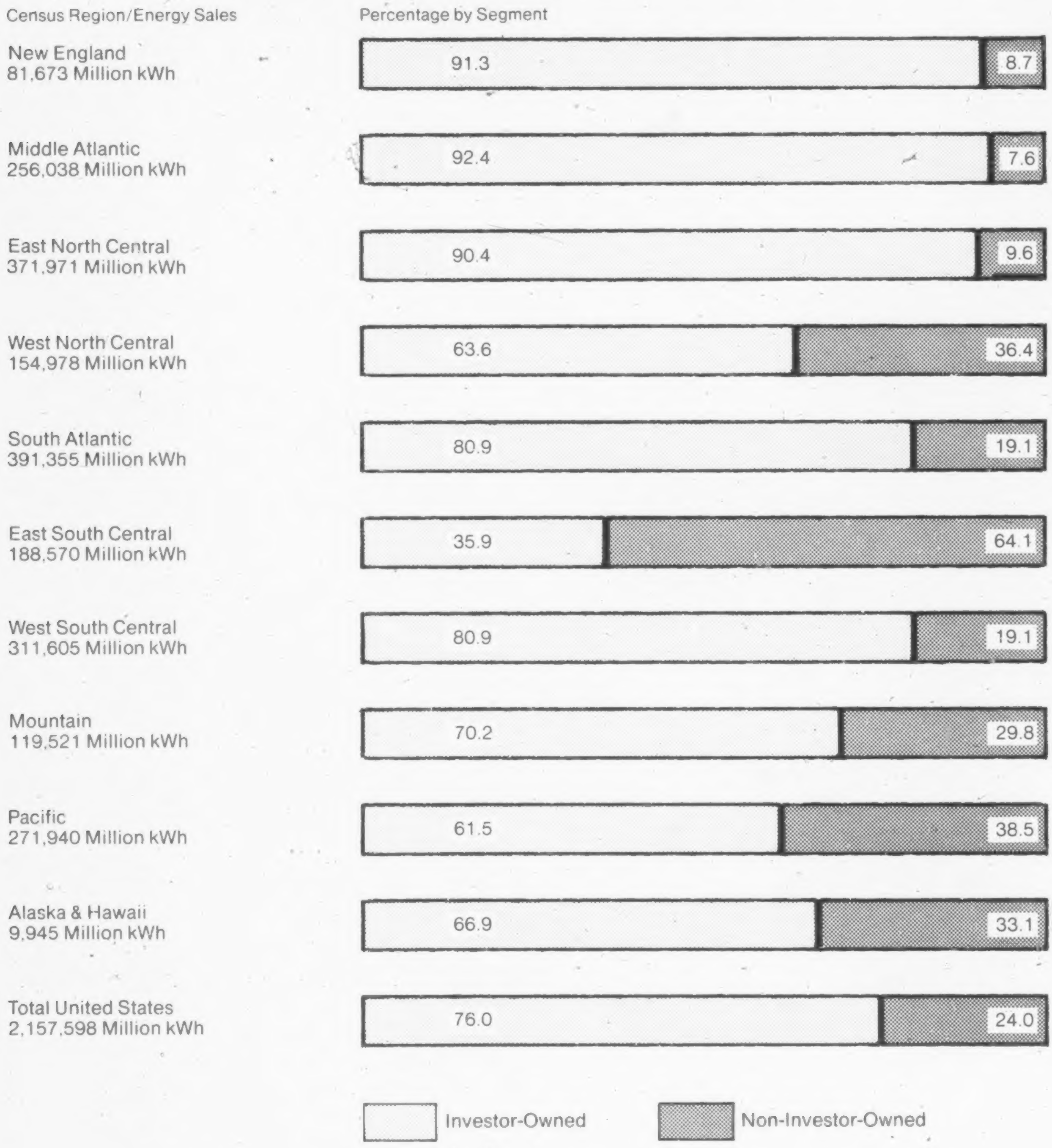
Total Sales = 1,733,024 kWh Total Sales = 2,126,094 kWh Total Sales = 2,157,598 kWh

Based on Table 40, as shown above.

CHART VI-C

ENERGY SALES TO ULTIMATE CUSTOMERS

BY INVESTOR-OWNED AND NON-INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 41A, page 46 and Table 42A, page 48.

TABLE 41A

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1983p—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,157,598**	**750,850**	**546,252**	**780,020**	**14,052**	**56,720**	**4,296**	**5,407**
Maine	9,018	3,185	1,954	3,686	63	129	—	2
New Hampshire	6,385	2,605	1,227	2,463	43	47	—	*
Vermont	3,983	1,723	749	1,381	19	111	—	1
Massachusetts	35,021	12,498	12,868	8,704	367	527	56	1
Rhode Island	5,174	1,914	1,768	1,309	72	111	—	*
Connecticut	22,092	8,358	7,530	5,914	222	25	34	9
New England	**81,673**	**30,283**	**26,096**	**23,457**	**786**	**949**	**90**	**13**
New York	108,511	31,892	34,802	31,728	1,154	6,569	2,310	56
New Jersey	50,988	16,969	18,123	15,405	457	—	5	28
Pennsylvania	96,540	32,367	21,722	41,031	578	119	660	63
Middle Atlantic	**256,038**	**81,227**	**74,648**	**88,165**	**2,188**	**6,688**	**2,976**	**147**
Ohio	110,533	33,595	23,283	49,652	734	3,207	44	19
Indiana	58,016	19,935	10,874	26,581	377	199	14	36
Illinois	96,321	31,116	26,867	31,822	724	5,437	352	2
Michigan	67,421	22,000	15,332	28,213	468	1,330	—	78
Wisconsin	39,680	14,607	9,747	14,628	379	250	—	70
East North Central	**371,971**	**121,252**	**86,103**	**150,896**	**2,683**	**10,423**	**409**	**205**
Minnesota	35,385	12,859	6,048	15,887	216	359	—	15
Iowa	25,580	10,377	5,523	9,060	225	395	—	1
Missouri	43,091	18,539	13,371	9,934	294	921	16	17
North Dakota	6,346	2,833	1,374	1,646	53	436	—	3
South Dakota	5,289	2,647	1,427	898	44	273	—	*
Nebraska	16,128	6,751	5,021	3,495	139	644	18	59
Kansas	23,158	8,406	8,182	6,191	204	173	—	2
West North Central	**154,978**	**62,411**	**40,946**	**47,111**	**1,177**	**3,202**	**34**	**97**
Delaware	6,040	1,816	1,451	2,599	167	2	—	5
Maryland	36,058	13,327	8,476	13,730	231	96	129	69
District of Columbia	7,618	1,208	3,711	2,403	103	—	194	—
Virginia	52,731	21,131	13,258	12,456	259	5,531	19	79
West Virginia	19,792	6,585	4,012	9,096	67	32	—	1
North Carolina	70,223	26,182	15,933	26,858	281	961	—	8
South Carolina	43,328	14,092	8,276	19,970	105	874	—	10
Georgia	55,949	21,538	13,573	20,246	290	218	85	—
Florida	99,616	48,731	31,937	15,545	678	2,595	—	131
South Atlantic	**391,355**	**154,609**	**100,626**	**122,903**	**2,180**	**10,307**	**427**	**302**
Kentucky	50,440	14,074	6,606	25,430	183	4,082	—	65
Tennessee	67,616	24,570	6,595	35,900	353	94	—	104
Alabama	46,645	16,653	7,443	22,213	205	67	—	64
Mississippi	23,868	10,024	5,264	8,051	134	387	—	9
East South Central	**188,570**	**65,321**	**25,907**	**91,593**	**875**	**4,631**	**—**	**242**
Arkansas	23,445	8,711	4,653	9,466	91	507	16	—
Louisiana	57,607	18,234	11,263	24,025	311	1,744	—	2,030
Oklahoma	37,641	13,843	9,654	9,891	146	4,107	—	—
Texas	192,912	61,037	47,119	79,461	907	4,064	—	324
West South Central	**311,605**	**101,825**	**72,689**	**122,844**	**1,454**	**10,423**	**16**	**2,354**
Montana	10,063	3,107	2,436	4,315	64	126	—	14
Idaho	16,241	5,858	4,133	6,175	71	4	—	—
Wyoming	9,282	1,694	1,716	5,761	22	75	—	14
Colorado	23,062	8,088	9,934	4,655	174	172	—	39
New Mexico	10,232	2,972	3,466	2,981	65	710	—	38
Arizona	27,980	10,768	9,067	7,386	193	425	30	111
Utah	12,608	3,678	3,375	4,786	75	693	—	1
Nevada	10,053	3,714	2,783	3,255	80	218	—	3
Mountain	**119,521**	**39,880**	**36,911**	**39,314**	**744**	**2,422**	**30**	**220**
Washington	71,118	23,905	14,149	31,344	270	1,410	21	18
Oregon	34,376	13,153	9,219	11,781	151	49	—	23
California	166,446	53,650	55,999	47,208	1,472	6,046	292	1,779
Pacific	**271,940**	**90,709**	**79,367**	**90,333**	**1,893**	**7,504**	**313**	**1,821**
Alaska	3,519	1,520	1,531	275	16	171	1	6
Hawaii	6,426	1,815	1,427	3,127	57	—	—	—
Alaska & Hawaii	**9,945**	**3,334**	**2,958**	**3,402**	**73**	**171**	**1**	**6**

Note: Total may not equal sum of components due to independent rounding
p Preliminary
** Less than five hundred thousand kilowatt-hours*

TABLE 41B

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1982r—KILOWATT-HOURS IN MILLIONS

Division State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,099,741**	**732,678**	**516,959**	**770,398**	**14,236**	**55,745**	**4,288**	**5,438**
Maine	8,204	3,034	1,583	3,397	64	125	—	1
New Hampshire	6,143	2,553	1,136	2,371	43	40	—	—
Vermont	3,935	1,759	732	1,314	18	112	—	*
Massachusetts	33,321	12,039	12,076	8,233	374	520	79	1
Rhode Island	4,937	1,826	1,691	1,240	73	107	—	—
Connecticut	20,994	8,044	7,091	5,601	224	25	*	9
New England	**77 535**	**29,254**	**24,308**	**22,156**	**796**	**929**	**80**	**11**
New York	104,970	30,683	33,768	30,928	1,199	6,018	2,314	60
New Jersey	48,805	15,849	17,214	15,251	459	—	7	25
Pennsylvania	94,669	31,647	21,140	40,420	588	131	680	63
Middle Atlantic	**248,444**	**78,178**	**72,122**	**86,600**	**2,247**	**6,149**	**3,001**	**147**
Ohio	106,078	33,004	22,564	46,547	737	3,160	45	20
Indiana	55,816	19,606	10,346	25,211	380	192	12	71
Illinois	93,511	29,065	25,884	32,011	728	5,483	337	3
Michigan	64,244	21,466	14,676	26,093	471	1,460	—	78
Wisconsin	38,425	14,410	9,268	13,821	463	394	—	68
East North Central	**358,073**	**117,551**	**82,738**	**143,683**	**2,778**	**10,690**	**394**	**239**
Minnesota	34,321	12,984	5,711	14,752	246	605	—	23
Iowa	24,631	9,841	5,252	8,984	220	333	—	1
Missouri	40,486	16,821	12,511	9,910	297	908	17	22
North Dakota	6,318	2,942	1,058	1,837	56	421	—	3
South Dakota	5,085	2,629	1,234	909	45	268	—	*
Nebraska	15,115	6,260	4,502	3,429	142	719	17	46
Kansas	22,412	7,724	7,409	6,862	202	213	—	3
West North Central	**148,368**	**59,200**	**37,677**	**46,683**	**1,208**	**3,468**	**34**	**97**
Delaware	5,445	1,707	1,326	2,237	166	1	—	8
Maryland	34,418	12,354	7,825	13,721	229	89	122	78
District of Columbia	7,245	1,114	3,543	2,286	103	—	199	—
Virginia	50,454	20,006	12,423	12,338	256	5,337	20	74
West Virginia	19,783	6,461	3,907	9,316	65	33	—	1
North Carolina	66,607	25,075	15,108	25,207	277	934	—	6
South Carolina	41,409	13,541	7,770	19,499	103	487	—	9
Georgia	55,061	21,487	12,574	20,420	293	212	75	—
Florida	95,150	46,184	31,049	14,687	644	2,475	—	111
South Atlantic	**375,572**	**147,929**	**95,524**	**119,711**	**2,137**	**9,568**	**416**	**287**
Kentucky	48,356	13,472	5,932	26,375	178	2,386	—	12
Tennessee	67,301	24,729	4,670	37,314	363	114	—	111
Alabama	47,211	16,529	6,934	23,427	201	53	—	67
Mississippi	23,176	9,832	4,438	8,360	130	416	—	—
East South Central	**186,044**	**64,562**	**21,974**	**95,477**	**872**	**2,969**	**—**	**190**
Arkansas	22,435	8,522	4,291	8,990	88	528	15	—
Louisiana	58,373	18,280	10,842	25,221	301	1,685	—	2,044
Oklahoma	36,455	13,388	8,717	10,258	144	3,948	—	—
Texas	190,424	61,979	45,166	78,460	908	3,591	—	320
West South Central	**307,687**	**102,170**	**69,016**	**122,930**	**1,441**	**9,752**	**15**	**2,364**
Montana	10,550	3,248	2,176	4,916	62	132	—	17
Idaho	15,738	5,647	3,667	6,358	61	4	—	—
Wyoming	8,426	1,758	1,410	5,146	22	76	—	14
Colorado	22,558	7,749	8,878	5,463	180	197	—	92
New Mexico	10,027	2,767	2,993	3,481	64	659	—	63
Arizona	26,505	9,272	8,424	7,927	142	605	28	106
Utah	12,088	3,645	3,028	4,669	72	672	—	1
Nevada	10,098	3,704	2,705	3,346	78	190	—	74
Mountain	**115,989**	**37,790**	**33,281**	**41,305**	**681**	**2,536**	**28**	**367**
Washington	71,401	26,633	13,783	29,629	310	989	22	36
Oregon	36,458	14,521	9,638	12,051	152	72	—	23
California	164,571	51,614	54,522	46,449	1,541	8,481	298	1,668
Pacific	**272,430**	**92,768**	**77,942**	**88,129**	**2,002**	**9,541**	**319**	**1,727**
Alaska	3,293	1,480	987	658	16	144	1	7
Hawaii	6,306	1,794	1,390	3,066	57	—	—	—
Alaska & Hawaii	**9,599**	**3,274**	**2,377**	**3,724**	**72**	**144**	**1**	**7**

Note: Total may not equal sum of components due to independent rounding.
r Revised
** Less than five hundred thousand kilowatt-hours*

TABLE 42A

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1983p—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**1,640,499**	**546,114**	**446,036**	**596,740**	**10,449**	**36,414**	**1,929**	**2,817**
Maine	8,773	3,063	1,918	3,608	59	124	—	—
New Hampshire	5,932	2,328	1,149	2,367	42	45	—	—
Vermont	3,229	1,340	628	1,146	14	102	—	—
Massachusetts	30,663	10,750	12,014	7,216	333	295	56	*
Rhode Island	5,153	1,900	1,765	1,305	72	111	—	—
Connecticut	20,800	8,021	7,278	5,261	207	—	34	—
New England	**74,549**	**27,401**	**24,752**	**20,902**	**727**	**677**	**90**	*
New York	92,559	30,819	34,210	24,326	627	2,443	104	30
New Jersey	50,265	16,615	18,001	15,163	454	—	5	28
Pennsylvania	93,866	30,591	21,245	40,654	548	105	660	63
Middle Atlantic	**236,691**	**78,025**	**73,456**	**80,142**	**1,629**	**2,548**	**770**	**121**
Ohio	102,634	29,487	21,877	47,636	639	2,932	44	19
Indiana	48,722	14,608	9,377	24,230	310	148	14	36
Illinois	89,771	27,571	24,944	30,984	694	5,223	352	2
Michigan	61,697	19,926	13,790	26,771	423	710	—	76
Wisconsin	33,489	11,538	8,967	12,414	324	219	—	27
East North Central	**336,312**	**103,130**	**78,955**	**142,035**	**2,390**	**9,234**	**409**	**159**
Minnesota	25,320	6,772	3,754	14,322	169	292	—	11
Iowa	19,447	6,702	4,482	7,757	186	318	—	1
Missouri	31,780	12,140	11,042	7,962	238	391	—	6
North Dakota	3,467	1,473	762	1,075	51	103	—	3
South Dakota	2,740	1,101	922	657	30	30	—	*
Nebraska	—	—	—	—	—	—	—	—
Kansas	15,864	5,771	5,273	4,645	153	20	—	2
West North Central	**98,616**	**33,958**	**26,236**	**36,418**	**827**	**1,155**	—	**22**
Delaware	4,868	1,327	1,233	2,278	25	—	—	5
Maryland	34,170	12,255	7,919	13,572	213	12	129	69
District of Columbia	7,618	1,208	3,711	2,403	103	—	194	—
Virginia	46,746	17,813	12,052	11,192	221	5,449	19	—
West Virginia	19,714	6,538	3,987	9,090	67	32	—	1
North Carolina	53,262	18,190	13,129	21,049	216	671	—	6
South Carolina	30,712	8,846	6,254	15,131	87	385	—	10
Georgia	41,420	12,288	10,800	17,924	256	68	85	—
Florida	77,974	37,762	26,005	11,377	409	2,308	—	113
South Atlantic	**316,484**	**116,226**	**85,090**	**104,016**	**1,597**	**8,924**	**427**	**204**
Kentucky	25,071	8,013	5,096	7,753	146	4,048	—	14
Tennessee	1,146	492	224	401	4	26	—	—
Alabama	28,820	9,176	5,817	13,688	138	—	—	1
Mississippi	12,712	4,422	3,414	4,452	96	328	—	—
East South Central	**67,749**	**22,103**	**14,551**	**26,294**	**384**	**4,402**	—	**15**
Arkansas	17,264	5,410	3,634	7,715	80	425	—	—
Louisiana	50,185	13,954	9,107	23,226	284	1,583	—	2,030
Oklahoma	25,960	9,469	6,879	7,845	130	1,638	—	—
Texas	158,806	46,090	38,024	70,857	712	3,121	—	*
West South Central	**252,215**	**74,924**	**57,644**	**109,643**	**1,206**	**6,767**	—	**2,031**
Montana	6,746	2,075	1,881	2,652	63	65	—	11
Idaho	13,506	4,344	3,426	5,704	30	2	—	—
Wyoming	6,432	1,024	1,024	4,342	19	10	—	13
Colorado	15,402	4,877	7,646	2,627	143	105	—	2
New Mexico	7,378	2,095	2,423	2,273	58	494	—	35
Arizona	15,822	5,738	5,343	4,471	87	139	—	42
Utah	9,910	2,850	2,443	4,101	51	465	—	*
Nevada	8,757	3,443	2,557	2,468	79	211	—	—
Mountain	**83,954**	**26,446**	**26,745**	**28,638**	**530**	**1,491**	—	**104**
Washington	20,138	10,626	5,943	3,476	92	—	—	—
Oregon	23,799	9,960	7,144	6,546	134	7	—	8
California	123,340	41,403	44,031	35,480	874	1,167	232	153
Pacific	**167,276**	**61,989**	**57,118**	**45,502**	**1,100**	**1,174**	**232**	**161**
Alaska	227	97	62	23	1	42	1	—
Hawaii	6,426	1,815	1,427	3,127	57	—	—	—
Alaska & Hawaii	**6,653**	**1,912**	**1,489**	**3,150**	**59**	**42**	**1**	—

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
** Less than five hundred thousand kilowatt-hours.*

TABLE 42B

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1982r—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,591,224**	**530,713**	**431,598**	**576,380**	**10,716**	**36,967**	**1,924**	**2,925**
Maine	7,983	2,914	1,547	3,341	62	119	—	—
New Hampshire	5,698	2,275	1,062	2,281	42	38	—	—
Vermont	3,183	1,367	591	1,109	14	102	—	—
Massachusetts	29,068	10,340	11,265	6,756	339	289	79	—
Rhode Island	4,917	1,813	1,689	1,236	72	107	—	—
Connecticut	19,992	7,781	6,892	5,105	213	—	*	—
New England	**70,841**	**26,491**	**23,046**	**19,827**	**742**	**654**	**80**	—
New York	89,303	29,688	33,197	23,392	641	2,236	111	38
New Jersey	48,113	15,518	17,098	15,011	454	—	7	25
Pennsylvania	92,002	29,866	20,782	39,936	558	117	680	63
Middle Atlantic	**229,418**	**75,072**	**71,077**	**78,340**	**1,653**	**2,353**	**798**	**126**
Ohio	98,526	28,939	21,398	44,592	644	2,890	45	18
Indiana	46,668	14,251	9,237	22,642	312	144	12	71
Illinois	86,925	25,622	24,296	30,703	699	5,266	337	3
Michigan	58,745	19,427	13,360	24,676	426	780	—	76
Wisconsin	32,808	11,400	8,599	12,011	411	363	—	24
East North Central	**323,671**	**99,640**	**76,889**	**134,625**	**2,491**	**9,443**	**394**	**191**
Minnesota	24,255	6,844	3,734	13,033	192	437	—	13
Iowa	18,584	6,192	4,359	7,582	182	268	—	1
Missouri	29,658	10,746	10,565	7,724	241	379	—	4
North Dakota	3,495	1,514	756	1,070	54	99	—	3
South Dakota	2,539	1,054	873	552	30	29	—	*
Nebraska	—	—	—	—	—	—	—	—
Kansas	15,270	5,274	5,053	4,740	151	49	—	2
West North Central	**93,800**	**31,625**	**25,340**	**34,701**	**850**	**1,261**	—	**23**
Delaware	4,366	1,245	1,145	1,942	25	—	—	8
Maryland	32,657	11,351	7,571	13,312	211	11	122	78
District of Columbia	7,245	1,114	3,543	2,286	103	—	199	—
Virginia	44,676	16,795	11,584	10,796	218	5,262	20	—
West Virginia	19,706	6,415	3,884	9,308	65	33	—	1
North Carolina	50,540	17,425	12,721	19,521	214	655	—	5
South Carolina	29,180	8,521	6,090	14,101	85	374	—	9
Georgia	40,149	11,944	10,584	17,218	260	68	75	—
Florida	74,740	35,958	24,645	11,395	456	2,198	—	87
South Atlantic	**303,258**	**110,769**	**81,767**	**99,879**	**1,638**	**8,601**	**416**	**188**
Kentucky	22,515	7,553	4,925	7,533	138	2,354	—	12
Tennessee	1,051	477	217	327	4	27	—	—
Alabama	28,464	9,153	5,716	13,460	134	—	—	1
Mississippi	12,544	4,457	3,362	4,285	92	349	—	—
East South Central	**64,574**	**21,641**	**14,218**	**25,605**	**367**	**2,730**	—	**13**
Arkansas	16,478	5,284	3,547	7,126	78	442	—	—
Louisiana	51,103	14,059	8,953	24,245	275	1,527	—	2,044
Oklahoma	25,125	9,141	6,648	7,633	129	1,574	—	—
Texas	157,152	47,141	37,449	68,830	713	3,019	—	*
West South Central	**249,857**	**75,625**	**56,597**	**107,834**	**1,194**	**6,561**	—	**2,044**
Montana	6,619	2,156	1,796	2,530	61	62	—	14
Idaho	13,577	4,712	2,994	5,844	26	2	—	—
Wyoming	5,648	1,075	967	3,568	20	6	—	12
Colorado	14,994	4,641	7,080	2,988	149	133	—	4
New Mexico	7,178	2,004	2,315	2,239	58	503	—	60
Arizona	14,359	4,717	4,985	4,352	89	204	—	12
Utah	9,501	2,825	2,324	3,852	49	451	—	*
Nevada	8,886	3,493	2,529	2,530	78	185	—	71
Mountain	**80,764**	**25,622**	**24,990**	**27,904**	**529**	**1,546**	—	**172**
Washington	20,886	11,452	5,895	3,436	102	—	—	—
Oregon	24,758	10,897	7,267	6,446	131	8	—	9
California	122,881	39,989	43,066	34,697	961	3,773	236	159
Pacific	**168,525**	**62,338**	**56,229**	**44,579**	**1,194**	**3,781**	**236**	**168**
Alaska	210	97	54	20	1	37	1	—
Hawaii	6,306	1,794	1,390	3,066	57	—	—	—
Alaska & Hawaii	**6,517**	**1,891**	**1,444**	**3,086**	**58**	**37**	**1**	—

Note: Total may not equal sum of components due to independent rounding.

r Revised.

** Less than five hundred thousand kilowatt-hours.*

TABLE 43

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY QUARTER AND CLASS OF SERVICE
1978–1983—KILOWATT-HOURS IN MILLIONS

Year—Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR—1983p								
First Quarter	523,057	193,575	128,463	180,197	3,752	14,633	1,231	1,206
Second Quarter	495,950	159,951	127,166	190,239	3,190	13,112	988	1,304
Third Quarter	606,398	222,072	156,937	206,979	3,431	14,165	1,134	1,680
Fourth Quarter	532,191	175,253	133,685	202,605	3,679	14,810	942	1,217
Total	**2,157,598**	**750,850**	**546,252**	**780,020**	**14,052**	**56,720**	**4,296**	**5,407**
YEAR—1982r								
First Quarter	545,490	200,830	128,103	196,143	3,848	14,074	1,089	1,402
Second Quarter	495,898	161,985	122,258	192,608	3,247	13,575	1,018	1,207
Third Quarter	553,878	197,261	141,352	195,161	3,383	14,068	1,174	1,479
Fourth Quarter	504,474	172,601	125,245	186,486	3,757	14,027	1,006	1,350
Total	**2,099,741**	**732,678**	**516,959**	**770,398**	**14,236**	**55,745**	**4,288**	**5,438**
YEAR—1981								
First Quarter	542,678	195,398	125,692	201,897	4,032	13,161	1,091	1,407
Second Quarter	508,314	159,571	123,517	206,284	3,334	13,135	1,017	1,456
Third Quarter	585,219	204,863	146,610	213,451	3,425	14,049	1,029	1,792
Fourth Quarter	514,463	170,647	125,879	198,009	3,892	13,392	1,069	1,575
Total	**2,150,674**	**730,479**	**521,698**	**819,641**	**14,683**	**53,737**	**4,206**	**6,230**
YEAR—1980								
First Quarter	541,213	195,081	127,121	200,014	3,924	12,401	1,102	1,570
Second Quarter	496,515	159,354	122,714	196,865	3,488	11,478	1,039	1,577
Third Quarter	570,696	208,225	146,316	197,511	3,493	12,499	1,049	1,603
Fourth Quarter	517,670	171,751	127,971	199,422	3,927	11,906	1,085	1,608
Total	**2,126,094**	**734,411**	**524,122**	**793,812**	**14,832**	**48,284**	**4,275**	**6,358**
YEAR—1979								
First Quarter	539,686	196,958	123,465	200,043	3,875	12,276	1,145	1,924
Second Quarter	496,338	153,062	117,830	207,124	3,465	11,764	1,044	2,049
Third Quarter	544,573	182,962	134,083	208,099	3,499	13,116	1,028	1,786
Fourth Quarter	503,803	163,014	119,345	202,351	3,953	12,448	1,039	1,653
Total	**2,084,400**	**695,996**	**494,723**	**817,617**	**14,792**	**49,604**	**4,256**	**7,412**
YEAR—1978								
First Quarter	508,415	188,190	117,887	183,238	3,882	12,287	1,199	1,732
Second Quarter	472,323	147,997	112,615	194,198	3,390	11,367	1,005	1,751
Third Quarter	538,243	183,515	133,195	202,711	3,515	12,477	1,021	1,809
Fourth Quarter	498,837	159,454	117,051	201,994	4,016	13,378	1,111	1,833
Total	**2,017,818**	**679,156**	**480,748**	**782,141**	**14,803**	**49,509**	**4,336**	**7,125**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary. *r Revised.*

TABLE 44

AVERAGE ANNUAL KWH USE PER CUSTOMER

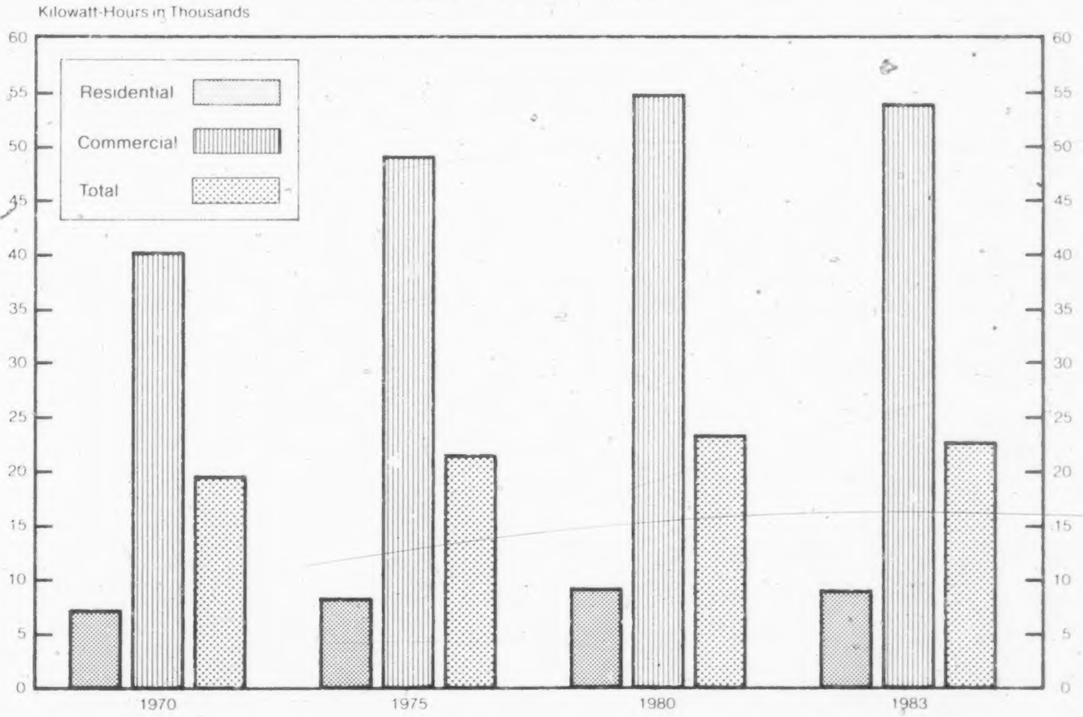
TOTAL ELECTRIC UTILITY INDUSTRY				INVESTOR-OWNED ELECTRIC UTILITIES			
Year	Residential	Commercial	Total Ultimate Customers	Year	Residential	Commercial	Total Ultimate Customers
1983p	**8,827**	**53,592**	**22,446**	**1983p**	**8,383**	**57,112**	**22,290**
1982r	8,743	52,260	22,197	1982r	8,261	56,379	21,940
1981	8,825	53,402	23,026	1981	8,311	55,742	22,753
1980	9,025	54,538	23,167	1980	8,539	55,210	22,949
1979	8,843	53,197	23,481	1979	8,360	54,594	23,287
1978	8,849	53,085	23,315	1978	8,430	54,653	23,197
1977	8,693	52,892	23,052	1977	8,279	54,520	22,938
1976	8,360	50,733	22,361	1976	7,969	52,560	22,263
1975	8,176	48,964	21,417	1975	7,855	50,966	21,305
1974	7,907	46,557	21,448	1974	7,574	48,426	21,343
1973	8,079	47,580	21,955	1973	7,769	49,550	21,989
1972	7,691	44,496	20,964	1972	7,413	46,565	21,002
1971	7,380	41,943	19,956	1971	7,062	43,596	19,917
1970	7,066	39,952	19,380	1970	6,720	41,272	19,167
1969	6,571	36,950	18,563	1969	6,253	38,025	18,305
1968	6,057	34,637	17,445	1968	5,727	35,549	17,159
1967	5,577	32,041	16,384	1967	5,241	32,492	15,930
1966	5,265	30,133	15,678	1966	4,962	30,671	15,287
1965	4,933	27,399	14,694	1965	4,647	27,958	14,347
1964	4,703	25,213	14,015	1964	4,416	25,518	13,628
1963	4,442	23,224	13,366	1963	4,173	23,444	12,913

Based on sales data in Tables 38 and 39, page 43, and average number of customers per year. *p Preliminary.* *r Revised.*

CHART VI-D

AVERAGE KILOWATT-HOURS USED

TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 44, as shown above.

CUSTOMERS

SECTION VII

TABLE 47

ULTIMATE CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1983p	**97,106,355**	**85,914,180**	**10,314,918**	**500,306**	**153,976**	**219,842**	**31**	**3,102**
1982r	95,250,268	84,371,779	9,976,274	533,635	148,678	216,975	31	2,896
1981	94,011,299	83,304,355	9,847,260	516,996	141,051	197,187	31	4,419
1980	92,653,471	82,153,162	9,698,809	484,652	142,724	168,120	30	5,974
1979	89,771,985	79,620,180	9,386,572	477,874	124,228	158,098	30	5,003
1978	87,667,954	77,775,667	9,148,399	464,637	121,899	152,439	30	4,883
1977	85,590,212	75,923,145	8,943,732	448,009	120,594	149,934	28	4,770
1976	83,613,161	74,161,846	8,750,949	427,403	119,130	148,867	28	4,938
1975	81,844,890	72,570,187	8,591,108	414,665	116,555	147,387	29	4,959
1974	80,102,390	70,949,607	8,472,817	422,736	112,477	139,480	29	5,244
1973	78,461,251	69,438,429	8,361,847	413,383	108,787	133,619	46	5,140
1972	76,150,204	67,314,000	8,200,033	369,952	103,874	157,461	50	4,834
1971	74,265,071	65,650,046	8,002,572	355,967	96,252	155,414	48	4,772
1970	72,484,978	64,017,662	7,865,073	352,993	92,052	152,706	47	4,445
1969	70,929,138	62,598,910	7,744,851	348,648	86,678	145,071	49	4,931
1968	69,716,013	61,439,030	7,706,779	333,650	86,023	146,257	64	4,210
1967	68,167,525	60,033,404	7,579,626	324,222	82,445	143,870	65	3,893
1966	66,909,793	58,826,283	7,536,066	316,098	85,197	141,703	65	4,381
1965	65,557,520	57,596,016	7,419,956	309,615	84,925	141,532	66	5,410
1964	64,148,656	56,307,195	7,293,997	318,168	83,729	139,549	83	5,935
1963	62,857,451	55,073,055	7,232,065	320,732	79,816	145,184	117	6,482

**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*

p Preliminary. r Revised.

TABLE 48

ULTIMATE CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1983p	**74,247,765**	**65,718,130**	**7,886,857**	**387,875**	**115,170**	**139,233**	**23**	**477**
1982r	72,979,298	64,648,932	7,702,142	378,016	113,251	136,484	23	450
1981	72,037,264	63,820,699	7,579,344	389,646	112,061	135,049	23	442
1980	70,996,563	62,902,588	7,459,959	375,540	123,589	134,595	23	269
1979	69,581,540	61,676,402	7,290,125	372,407	108,149	134,171	23	263
1978	67,922,975	60,216,110	7,106,705	364,123	106,286	129,496	23	232
1977	66,294,706	58,770,646	6,942,201	349,563	105,442	126,611	21	222
1976	64,896,400	57,530,599	6,805,345	329,522	103,754	126,674	22	484
1975	63,650,468	56,409,122	6,690,374	322,429	101,937	126,100	23	483
1974	62,667,061	55,499,145	6,624,061	326,409	97,438	119,531	23	454
1973	61,435,986	54,370,297	6,531,953	324,236	94,682	114,315	24	479
1972	59,804,431	52,868,920	6,422,032	284,733	90,206	138,052	25	463
1971	58,204,164	51,415,155	6,294,907	274,329	86,714	132,573	25	461
1970	56,888,819	50,210,348	6,194,383	270,132	83,443	130,036	24	453
1969	55,714,225	49,134,168	6,111,945	265,331	78,903	123,399	25	454
1968	54,680,477	48,140,270	6,078,790	258,848	78,950	123,136	40	443
1967	53,560,415	47,115,644	5,994,228	255,375	75,419	119,263	41	445
1966	52,567,765	46,151,524	5,981,208	248,267	71,394	114,918	41	413
1965	51,505,592	45,166,904	5,911,683	242,818	68,421	115,303	43	420
1964	50,405,817	44,157,062	5,818,820	250,755	65,684	113,031	60	405
1963	49,312,316	43,141,839	5,739,739	252,250	60,631	117,387	65	405

**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 49

CUSTOMERS IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways*	Inter-departmental*
1983p	**88.5%**	**10.6%**	**0.5%**	**0.2%**	**0.2%**	**0.0%**	**0.0%**
1982r	88.6	10.5	0.6	0.1	0.2	0.0	0.0
1981	88.6	10.5	0.5	0.2	0.2	0.0	0.0
1980	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1979	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1978	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1977	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1976	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1975	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1974	88.6	10.6	0.5	0.1	0.2	0.0	0.0
1973	88.5	10.7	0.5	0.1	0.2	0.0	0.0
1972	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1971	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1970	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1969	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1968	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1967	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1966	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1965	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1964	87.8	11.4	0.5	0.1	0.2	0.0	0.0
1963	87.7	11.5	0.5	0.1	0.2	0.0	0.0

**Less than one-tenth of one percent. p Preliminary. r Revised.*
Based on customer data in Table 47.

TABLE 50A

ULTIMATE CUSTOMERS
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1983p

Division/State	Total to Ultimate Customers	Residential.	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**97,106,355**	**85,914,180**	**10,314,918**	**500,306**	**153,976**	**219,842**	**31**	**3,102**
Maine	546,888	485,515	57,562	2,410	1,068	316	—	17
New Hampshire	440,103	384,520	50,200	1,583	1,243	2,556	—	1
Vermont	249,631	220,619	25,270	1,065	280	2,391	—	6
Massachusetts	2,297,963	2,055,110	220,572	11,029	6,722	4,502	1	27
Rhode Island	386,357	347,537	35,516	2,487	802	14	—	1
Connecticut	1,278,425	1,165,917	103,661	4,794	3,724	275	1	53
New England	**5,199,367**	**4,659,218**	**492,781**	**23,368**	**13,839**	**10,054**	**2**	**105**
New York	6,582,566	5,844,046	667,330	46,629	9,491	15,061	5	4
New Jersey	2,936,924	2,593,174	324,301	12,487	6,960	—	1	1
Pennsylvania	4,797,860	4,298,794	461,739	29,811	6,254	1,257	4	1
Middle Atlantic	**14,317,350**	**12,736,014**	**1,453,370**	**88,927**	**22,705**	**16,318**	**10**	**6**
Ohio	4,368,271	3,937,562	386,970	26,500	6,384	10,833	2	20
Indiana	2,270,347	2,035,351	211,980	18,553	2,590	1,870	1	2
Illinois	4,548,935	4,128,484	400,172	5,465	2,624	12,186	2	2
Michigan	3,715,330	3,370,366	325,774	13,115	2,181	3,891	—	3
Wisconsin	2,056,100	1,847,154	199,835	4,655	3,139	1,280	—	37
East North Central	**16,958,983**	**15,318,917**	**1,524,731**	**68,288**	**16,918**	**30,060**	**5**	**64**
Minnesota	1,749,919	1,570,040	165,822	6,919	2,612	4,512	—	14
Iowa	1,279,021	1,117,100	149,441	4,735	1,014	6,730	—	1
Missouri	2,158,272	1,917,625	219,927	9,282	2,522	8,846	1	69
North Dakota	299,852	255,029	40,718	2,302	425	1,375	—	3
South Dakota	310,721	269,018	33,576	1,331	335	1,461	—	—
Nebraska	885,929	704,805	171,800	1,809	927	6,584	1	3
Kansas	1,107,313	945,247	149,386	9,601	1,244	1,814	—	21
West North Central	**7,791,027**	**6,778,864**	**935,670**	**35,979**	**9,079**	**31,322**	**2**	**111**
Delaware	253,662	231,355	21,358	585	127	236	—	1
Maryland	1,599,592	1,447,222	147,408	4,129	718	112	2	1
District of Columbia	203,276	178,507	24,568	166	34	—	1	—
Virginia	2,169,684	1,944,956	197,213	3,872	1,722	21,919	1	1
West Virginia	818,483	723,116	84,456	9,465	1,120	321	—	5
North Carolina	2,644,007	2,312,497	307,323	12,466	6,978	4,712	—	31
South Carolina	1,365,630	1,201,565	153,731	4,066	2,542	3,711	—	15
Georgia	2,339,298	2,103,116	214,670	13,893	1,960	5,658	1	—
Florida	5,269,507	4,688,593	546,130	19,924	4,218	10,638	—	4
South Atlantic	**16,663,139**	**14,830,927**	**1,696,857**	**68,566**	**19,419**	**47,307**	**5**	**58**
Kentucky	1,491,247	1,321,101	150,024	7,008	4,424	8,680	—	10
Tennessee	1,971,269	1,756,779	197,618	14,590	544	1,718	—	20
Alabama	1,664,660	1,471,151	182,244	7,939	751	2,518	—	57
Mississippi	1,043,896	913,853	119,928	5,668	502	3,944	—	1
East South Central	**6,171,072**	**5,462,884**	**649,814**	**35,205**	**6,221**	**16,860**	**—**	**88**
Arkansas	1,036,297	908,891	106,094	15,410	549	5,352	1	—
Louisiana	1,781,816	1,573,858	178,073	17,930	2,326	9,627	—	2
Oklahoma	1,515,731	1,315,942	175,047	13,927	1,133	9,682	—	—
Texas	6,572,407	5,679,266	803,398	60,198	3,466	25,847	—	232
West South Central	**10,906,251**	**9,477,957**	**1,262,612**	**107,465**	**7,474**	**50,508**	**1**	**234**
Montana	391,088	330,973	55,113	2,659	1,649	455	—	239
Idaho	447,991	380,369	65,212	1,785	561	64	—	—
Wyoming	241,788	198,930	39,111	3,156	190	392	—	9
Colorado	1,420,131	1,235,792	178,622	3,549	647	1,199	—	322
New Mexico	578,163	492,756	79,434	4,816	187	893	—	77
Arizona	1,231,266	1,083,924	129,901	5,336	10,174	1,666	1	264
Utah	555,875	496,324	49,315	7,904	2,077	240	—	15
Nevada	398,631	346,424	51,084	550	137	434	—	2
Mountain	**5,264,933**	**4,565,492**	**647,792**	**29,755**	**15,622**	**5,343**	**1**	**928**
Washington	1,983,785	1,763,298	205,645	5,940	6,028	2,825	1	48
Oregon	1,204,030	1,051,993	148,473	1,778	1,230	547	—	9
California	10,143,017	8,835,341	1,233,958	33,886	32,894	5,551	3	1,384
Pacific	**13,330,832**	**11,650,632**	**1,588,076**	**41,604**	**40,152**	**8,923**	**4**	**1,441**
Alaska	183,952	157,081	22,192	409	1,055	3,147	1	67
Hawaii	319,449	276,194	41,023	740	1,492	—	—	—
Alaska & Hawaii	**503,401**	**433,275**	**63,215**	**1,149**	**2,547**	**3,147**	**1**	**67**

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TABLE 50B

ULTIMATE CUSTOMERS
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
AT DECEMBER 31, 1982r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**95,250,268**	**84,371,779**	**9,976,274**	**533,635**	**148,678**	**216,975**	**31**	**2,896**
Maine	536,182	475,994	57,858	832	1,051	337	—	110
New Hampshire	427,456	373,864	48,214	1,571	1,257	2,550	—	—
Vermont	244,746	216,030	24,864	1,156	299	2,389	—	8
Massachusetts	2,257,741	2,022,580	212,681	11,162	6,771	4,518	1	28
Rhode Island	380,509	342,809	34,383	2,487	781	49	—	—
Connecticut	1,263,768	1,148,266	107,075	4,826	3,300	250	1	50
New England	**5,110,402**	**4,579,543**	**485,075**	**22,034**	**13,459**	**10,093**	**2**	**196**
New York	6,525,212	5,792,136	662,548	46,374	9,336	14,808	5	5
New Jersey	2,899,093	2,560,638	318,923	12,524	7,006	—	1	1
Pennsylvania	4,749,662	4,255,992	455,568	30,634	6,250	1,212	4	2
Middle Atlantic	**14,173,967**	**12,608,766**	**1,437,039**	**89,532**	**22,592**	**16,020**	**10**	**8**
Ohio	4,340,312	3,912,057	384,291	26,627	6,488	10,834	2	13
Indiana	2,255,548	2,022,671	208,276	20,189	2,424	1,985	1	2
Illinois	4,521,173	4,106,309	393,155	6,927	2,664	12,113	2	3
Michigan	3,698,536	3,357,110	321,734	13,668	2,211	3,810	—	3
Wisconsin	2,039,185	1,831,696	197,048	5,072	3,459	1,873	—	37
East North Central	**16,854,754**	**15,229,843**	**1,504,504**	**72,483**	**17,246**	**30,615**	**5**	**58**
Minnesota	1,716,065	1,540,510	160,094	8,474	2,485	4,487	—	15
Iowa	1,269,573	1,110,131	147,295	5,271	1,010	5,865	—	1
Missouri	2,133,090	1,893,222	217,931	10,947	2,487	8,430	1	72
North Dakota	293,881	250,151	38,430	3,551	428	1,318	—	3
South Dakota	308,474	266,763	37,724	2,015	338	1,633	—	1
Nebraska	740,629	613,226	117,456	2,166	1,324	6,452	1	4
Kansas	1,092,118	933,411	144,371	11,133	1,198	2,000	—	5
West North Central	**7,553,830**	**6,607,414**	**863,301**	**43,557**	**9,270**	**30,185**	**2**	**101**
Delaware	248,038	226,281	20,734	661	127	234	—	1
Maryland	1,560,159	1,412,069	142,376	4,883	716	112	2	1
District of Columbia	201,045	176,573	24,273	168	30	—	1	—
Virginia	2,114,839	1,897,812	189,451	4,458	1,703	21,413	1	1
West Virginia	810,477	716,759	82,794	9,407	993	521	—	3
North Carolina	2,560,116	2,241,084	293,746	13,668	6,852	4,744	—	22
South Carolina	1,322,080	1,165,437	145,554	4,944	2,511	3,620	—	14
Georgia	2,317,149	2,087,264	204,701	16,576	2,891	5,716	1	—
Florida	5,018,663	4,478,240	509,364	17,415	3,966	9,674	—	4
South Atlantic	**16,152,566**	**14,401,519**	**1,612,993**	**72,180**	**19,789**	**46,034**	**5**	**46**
Kentucky	1,485,426	1,319,194	145,018	8,507	4,332	8,372	—	3
Tennessee	1,942,206	1,733,318	189,154	17,522	494	1,717	—	1
Alabama	1,635,748	1,447,536	175,514	9,446	744	2,461	—	47
Mississippi	1,023,841	896,618	115,193	7,719	486	3,825	—	—
East South Central	**6,087,221**	**5,396,666**	**624,879**	**43,194**	**6,056**	**16,375**	**—**	**51**
Arkansas	1,012,439	887,866	102,600	16,174	547	5,251	1	—
Louisiana	1,738,320	1,539,654	169,663	17,289	2,257	9,455	—	2
Oklahoma	1,470,025	1,278,428	166,210	15,570	1,113	8,704	—	—
Texas	6,250,994	5,402,240	758,662	61,243	3,272	25,458	—	119
West South Central	**10,471,778**	**9,108,188**	**1,197,135**	**110,276**	**7,189**	**48,368**	**1**	**121**
Montana	383,069	324,888	52,747	3,317	1,451	449	—	217
Idaho	440,439	374,181	63,855	1,784	556	63	—	—
Wyoming	235,575	199,719	33,022	2,519	199	113	—	3
Colorado	1,358,505	1,182,922	167,932	5,352	634	1,350	—	315
New Mexico	552,453	472,489	72,342	6,277	173	1,110	—	62
Arizona	1,258,384	1,114,256	131,043	8,071	2,896	1,877	1	240
Utah	542,909	485,649	47,995	7,083	1,953	223	—	6
Nevada	413,834	358,448	54,076	488	150	669	—	3
Mountain	**5,185,168**	**4,512,552**	**623,012**	**34,891**	**8,012**	**5,854**	**1**	**846**
Washington	1,879,343	1,667,991	191,029	6,576	8,596	5,145	1	5
Oregon	1,225,799	1,061,900	159,916	2,285	1,150	539	—	9
California	10,079,218	8,786,700	1,218,055	34,779	32,788	5,505	3	1,388
Pacific	**13,184,360**	**11,516,591**	**1,569,000**	**43,640**	**42,534**	**11,189**	**4**	**1,402**
Alaska	163,645	140,317	19,338	1,125	1,055	1,742	1	67
Hawaii	312,577	270,380	39,998	723	1,476	—	—	—
Alaska & Hawaii	**476,222**	**410,697**	**59,336**	**1,848**	**2,531**	**1,742**	**1**	**67**

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TABLE 51A

ULTIMATE CUSTOMERS
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1983p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**74,247,765**	**65,718,130**	**7,886,857**	**387,875**	**115,170**	**139,233**	**23**	**477**
Maine	522,067	463,807	54,855	2,287	1,031	87	—	—
New Hampshire	384,772	337,116	44,495	1,386	1,240	535	—	—
Vermont	193,592	171,034	19,453	683	264	2,158	—	—
Massachusetts	2,006,639	1,795,941	196,304	7,783	4,374	2,235	1	1
Rhode Island	383,272	344,681	35,305	2,471	801	14	—	—
Connecticut	1,222,059	1,116,157	97,637	4,644	3,620	—	1	—
New England	**4,712,401**	**4,228,736**	**448,049**	**19,254**	**11,330**	**5,029**	**2**	**1**
New York	6,438,047	5,716,085	652,460	45,593	9,289	14,614	4	2
New Jersey	2,888,909	2,550,055	319,568	12,353	6,931	—	1	1
Pennsylvania	4,572,198	4,089,304	447,039	29,428	5,929	493	4	1
Middle Atlantic	**13,899,154**	**12,355,444**	**1,419,067**	**87,374**	**22,149**	**15,107**	**9**	**4**
Ohio	3,865,780	3,481,101	346,066	23,802	5,547	9,242	2	20
Indiana	1,720,438	1,528,139	172,875	16,172	2,344	905	1	2
Illinois	4,180,773	3,789,294	373,667	4,794	2,536	10,478	2	2
Michigan	3,337,544	3,025,519	297,010	11,362	2,112	1,539	—	2
Wisconsin	1,702,251	1,523,868	172,368	2,372	3,006	615	—	22
East North Central	**14,806,786**	**13,347,921**	**1,361,986**	**58,502**	**15,545**	**22,779**	**5**	**48**
Minnesota	1,067,272	943,690	113,451	5,218	1,958	2,953	—	2
Iowa	927,897	799,297	120,159	2,677	847	4,916	—	1
Missouri	1,449,382	1,273,350	163,062	6,342	2,130	4,453	—	45
North Dakota	193,082	162,733	28,017	1,355	396	579	—	2
South Dakota	166,069	140,354	24,720	389	279	327	—	—
Nebraska	—	—	—	—	—	—	—	—
Kansas	714,798	628,318	78,060	7,336	884	187	—	13
West North Central	**4,518,500**	**3,947,742**	**527,469**	**23,317**	**6,494**	**13,415**	**—**	**63**
Delaware	187,092	169,511	17,033	430	117	—	—	1
Maryland	1,479,709	1,337,774	137,249	3,931	706	46	2	1
District of Columbia	203,276	178,507	24,568	166	34	—	1	—
Virginia	1,814,936	1,623,754	166,516	3,252	1,685	19,728	1	—
West Virginia	810,469	716,150	83,484	9,451	1,070	309	—	5
North Carolina	1,796,450	1,546,920	232,790	9,546	5,722	1,444	—	28
South Carolina	847,467	728,816	111,655	3,322	2,166	1,493	—	15
Georgia	1,405,499	1,238,409	152,632	12,147	1,746	564	1	—
Florida	3,987,866	3,555,740	402,009	17,649	3,660	8,805	—	3
South Atlantic	**12,532,764**	**11,095,581**	**1,327,936**	**59,894**	**16,906**	**32,389**	**5**	**53**
Kentucky	881,047	764,922	100,533	4,386	4,003	7,201	—	2
Tennessee	34,858	31,213	3,372	114	117	42	—	—
Alabama	1,015,074	889,372	120,749	4,325	627	—	—	1
Mississippi	483,155	413,011	63,870	3,590	449	2,235	—	—
East South Central	**2,414,134**	**2,098,518**	**288,524**	**12,415**	**5,196**	**9,478**	**—**	**3**
Arkansas	647,120	558,874	69,875	14,773	485	3,113	—	—
Louisiana	1,350,982	1,188,378	136,302	16,256	2,119	7,925	—	2
Oklahoma	1,027,795	895,959	110,257	12,226	1,068	8,285	—	—
Texas	4,718,373	4,084,433	561,044	51,363	2,523	19,009	—	1
West South Central	**7,744,270**	**6,727,644**	**877,478**	**94,618**	**6,195**	**38,332**	**—**	**3**
Montana	288,571	244,396	39,682	2,501	1,634	134	—	224
Idaho	366,117	310,271	53,687	1,610	508	41	—	—
Wyoming	155,574	130,744	22,448	2,130	167	81	—	4
Colorado	931,842	822,054	107,224	1,735	481	323	—	25
New Mexico	400,116	349,737	45,560	4,005	86	708	—	20
Arizona	715,327	626,879	82,200	4,279	1,031	937	—	1
Utah	427,220	383,713	35,303	6,712	1,446	43	—	3
Nevada	370,395	324,030	45,895	328	128	14	—	—
Mountain	**3,655,162**	**3,191,824**	**431,999**	**23,300**	**5,481**	**2,281**	**—**	**277**
Washington	850,110	760,201	85,524	2,965	1,420	—	—	—
Oregon	942,486	824,340	115,669	1,303	1,102	66	—	6
California	7,839,316	6,853,084	960,361	4,146	21,663	42	1	19
Pacific	**9,631,912**	**8,437,625**	**1,161,554**	**8,414**	**24,185**	**108**	**1**	**25**
Alaska	13,233	10,901	1,772	47	197	315	1	—
Hawaii	319,449	276,194	41,023	740	1,492	—	—	—
Alaska & Hawaii	**332,682**	**287,095**	**42,795**	**787**	**1,689**	**315**	**1**	**—**

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TABLE 51B

ULTIMATE CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
AT DECEMBER 31, 1982r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**72,979,298**	**64,648,932**	**7,702,142**	**378,016**	**113,251**	**136,484**	**23**	**450**
Maine	511,499	455,005	54,667	709	1,032	86	—	—
New Hampshire	372,964	327,476	42,333	1,373	1,253	529	—	—
Vermont	189,356	167,308	18,956	697	266	2,129	—	—
Massachusetts	1,973,243	1,769,388	189,492	7,711	4,406	2,245	1	—
Rhode Island	377,591	340,103	34,191	2,468	780	49	—	—
Connecticut	1,206,785	1,097,913	101,111	4,671	3,089	—	1	—
New England	**4,631,438**	**4,157,193**	**440,750**	**17,629**	**10,826**	**5,038**	**2**	**—**
New York	6,381,933	5,665,817	647,240	45,349	9,134	14,386	4	3
New Jersey	2,851,638	2,518,097	314,194	12,370	6,975	—	1	1
Pennsylvania	4,527,826	4,049,789	441,906	29,715	5,921	489	4	2
Middle Atlantic	**13,761,397**	**12,233,703**	**1,403,340**	**87,434**	**22,030**	**14,875**	**9**	**6**
Ohio	3,841,836	3,458,905	344,770	23,299	5,633	9,215	2	12
Indiana	1,710,392	1,519,577	171,393	16,237	2,192	990	1	2
Illinois	4,155,061	3,768,800	368,259	4,978	2,562	10,457	2	3
Michigan	3,324,034	3,015,124	293,967	11,301	2,142	1,498	—	2
Wisconsin	1,690,577	1,513,199	170,592	2,343	3,321	1,099	—	23
East North Central	**14,721,900**	**13,275,605**	**1,348,981**	**58,158**	**15,850**	**23,259**	**5**	**42**
Minnesota	1,049,346	928,631	110,678	5,216	1,859	2,960	—	2
Iowa	920,779	794,048	119,021	2,651	844	4,214	—	1
Missouri	1,434,474	1,259,275	162,179	6,477	2,100	4,397	—	46
North Dakota	189,722	159,706	27,713	1,338	394	569	—	2
South Dakota	164,712	139,074	24,554	383	280	420	—	1
Nebraska	—	—	—	—	—	—	—	—
Kansas	705,389	620,202	76,727	7,434	839	186	—	1
West North Central	**4,464,422**	**3,900,936**	**520,872**	**23,499**	**6,316**	**12,746**	**—**	**53**
Delaware	183,167	165,898	16,706	445	117	—	—	1
Maryland	1,444,678	1,306,714	133,207	4,005	703	46	2	1
District of Columbia	201,045	176,573	24,273	168	30	—	1	—
Virginia	1,770,224	1,585,559	160,581	3,248	1,664	19,171	1	—
West Virginia	802,634	709,934	81,874	9,381	946	496	—	3
North Carolina	1,744,564	1,503,831	224,225	9,408	5,623	1,459	—	18
South Carolina	827,684	712,999	107,753	3,277	2,143	1,498	—	14
Georgia	1,365,038	1,204,618	146,049	12,122	1,694	554	1	—
Florida	3,843,412	3,437,737	379,007	15,100	3,551	8,014	—	3
South Atlantic	**12,182,446**	**10,803,863**	**1,273,675**	**57,154**	**16,471**	**31,238**	**5**	**40**
Kentucky	878,792	763,813	99,467	4,304	3,944	7,262	—	2
Tennessee	34,646	31,034	3,332	123	113	44	—	—
Alabama	1,001,693	878,892	117,976	4,202	622	—	—	1
Mississippi	476,298	407,491	62,631	3,547	435	2,194	—	—
East South Central	**2,391,429**	**2,081,230**	**283,406**	**12,176**	**5,114**	**9,500**	**—**	**3**
Arkansas	634,106	547,551	68,933	14,172	481	2,969	—	—
Louisiana	1,324,061	1,168,043	131,420	14,961	2,054	7,581	—	2
Oklahoma	1,001,320	874,021	106,784	11,972	1,044	7,499	—	—
Texas	4,513,108	3,908,425	534,203	49,275	2,376	18,828	—	1
West South Central	**7,472,595**	**6,498,040**	**841,340**	**90,380**	**5,955**	**36,877**	**—**	**3**
Montana	283,479	240,697	38,554	2,446	1,436	131	—	215
Idaho	360,341	305,453	52,931	1,416	502	39	—	—
Wyoming	154,228	130,153	21,714	2,130	145	83	—	3
Colorado	890,512	790,287	97,562	1,806	461	372	—	24
New Mexico	382,817	335,699	42,284	3,831	83	898	—	22
Arizona	685,869	600,039	79,674	4,201	985	970	—	—
Utah	418,372	376,469	34,515	5,967	1,378	40	—	3
Nevada	357,625	313,522	43,647	308	133	14	—	1
Mountain	**3,533,243**	**3,092,319**	**410,881**	**22,105**	**5,123**	**2,547**	**—**	**268**
Washington	829,559	743,172	81,973	3,045	1,369	—	—	—
Oregon	942,606	825,523	114,721	1,297	991	68	—	6
California	7,723,352	6,756,927	940,456	4,369	21,533	37	1	29
Pacific	**9,495,517**	**8,325,622**	**1,137,150**	**8,711**	**23,893**	**105**	**1**	**35**
Alaska	12,334	10,041	1,749	47	197	299	1	—
Hawaii	312,577	270,380	39,998	723	1,476	—	—	—
Alaska & Hawaii	**324,911**	**280,421**	**41,747**	**770**	**1,673**	**299**	**1**	**—**

r Revised.

TABLE 52A

AVERAGE NUMBER OF CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1983p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**96,125,038**	**85,060,511**	**10,192,794**
Maine	542,116	481,099	57,586
New Hampshire	434,619	380,252	48,993
Vermont	246,156	218,178	24,249
Massachusetts	2,288,425	2,048,289	217,731
Rhode Island	382,994	344,643	35,068
Connecticut	1,269,690	1,157,946	102,825
New England	**5,164,000**	**4,630,407**	**486,452**
New York	6,552,965	5,816,165	665,767
New Jersey	2,921,970	2,580,488	322,051
Pennsylvania	4,770,688	4,274,439	458,861
Middle Atlantic	**14,245,623**	**12,671,092**	**1,446,679**
Ohio	4,354,563	3,924,441	386,688
Indiana	2,263,084	2,028,884	211,087
Illinois	4,534,615	4,115,726	398,495
Michigan	3,705,875	3,362,660	324,127
Wisconsin	2,044,828	1,836,989	198,660
East North Central	**16,902,965**	**15,268,700**	**1,519,057**
Minnesota	1,735,058	1,556,840	164,199
Iowa	1,272,306	1,111,652	148,614
Missouri	2,146,029	1,905,731	219,893
North Dakota	297,349	252,750	40,523
South Dakota	309,298	267,556	38,581
Nebraska	882,318	702,595	170,349
Kansas	1,100,943	939,943	148,181
West North Central	**7,743,301**	**6,737,067**	**930,340**
Delaware	250,661	228,593	21,111
Maryland	1,581,666	1,431,276	145,464
District of Columbia	202,069	177,410	24,459
Virginia	2,141,883	1,920,608	194,087
West Virginia	814,284	719,813	83,681
North Carolina	2,618,466	2,290,310	304,077
South Carolina	1,352,546	1,190,250	161,902
Georgia	2,306,453	2,075,497	209,445
Florida	5,105,319	4,545,581	520,870
South Atlantic	**16,373,347**	**14,579,338**	**1,665,096**
Kentucky	1,493,168	1,323,598	149,555
Tennessee	1,959,874	1,747,371	195,476
Alabama	1,651,060	1,459,737	180,052
Mississippi	1,036,230	906,878	119,328
East South Central	**6,140,332**	**5,437,584**	**644,411**
Arkansas	1,028,336	900,202	105,390
Louisiana	1,762,532	1,559,155	174,502
Oklahoma	1,497,520	1,301,069	172,571
Texas	6,435,275	5,560,809	786,404
West South Central	**10,723,663**	**9,321,235**	**1,238,867**
Montana	388,201	327,704	54,378
Idaho	445,245	377,033	64,910
Wyoming	243,088	200,081	39,245
Colorado	1,395,174	1,212,232	177,037
New Mexico	563,251	481,062	76,473
Arizona	1,187,878	1,047,017	126,151
Utah	548,552	489,532	48,787
Nevada	390,622	339,870	49,652
Mountain	**5,162,011**	**4,474,531**	**636,633**
Washington	1,876,666	1,664,798	198,692
Oregon	1,212,120	1,056,724	151,920
California	10,084,563	8,791,674	1,216,457
Pacific	**13,173,349**	**11,513,196**	**1,567,069**
Alaska	180,127	153,799	21,658
Hawaii	316,320	273,562	40,532
Alaska & Hawaii	**496,447**	**427,361**	**62,190**

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TABLE 52B

AVERAGE NUMBER OF CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1982r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**94,597,033**	**83,801,551**	**9,892,030**
Maine	531,659	471,357	57,961
New Hampshire	425,528	372,391	47,807
Vermont	243,017	214,628	24,475
Massachusetts	2,256,563	2,020,026	213,139
Rhode Island	378,589	341,181	34,092
Connecticut	1,258,579	1,143,288	106,882
New England	**5,093,935**	**4,562,871**	**484,356**
New York	6,498,930	5,769,055	659,113
New Jersey	2,891,707	2,554,153	318,483
Pennsylvania	4,738,807	4,245,693	454,840
Middle Atlantic	**14,129,444**	**12,568,901**	**1,432,436**
Ohio	4,336,329	3,908,712	384,105
Indiana	2,252,796	2,019,937	206,481
Illinois	4,517,944	4,103,872	392,240
Michigan	3,692,605	3,352,369	320,573
Wisconsin	2,029,348	1,823,874	195,080
East North Central	**16,829,022**	**15,208,764**	**1,500,479**
Minnesota	1,711,166	1,536,334	159,461
Iowa	1,267,219	1,108,329	146,845
Missouri	2,128,031	1,889,150	216,920
North Dakota	292,665	249,434	37,931
South Dakota	308,320	266,599	37,738
Nebraska	738,821	612,207	116,717
Kansas	1,088,055	930,168	143,515
West North Central	**7,534,277**	**6,592,221**	**859,127**
Delaware	246,362	224,924	20,403
Maryland	1,548,173	1,401,186	141,340
District of Columbia	200,085	175,726	24,161
Virginia	2,097,414	1,882,648	187,503
West Virginia	806,222	713,543	82,061
North Carolina	2,551,564	2,232,479	293,860
South Carolina	1,317,819	1,161,341	145,371
Georgia	2,302,876	2,075,119	202,544
Florida	4,937,619	4,405,420	501,138
South Atlantic	**16,008,134**	**14,272,386**	**1,598,381**
Kentucky	1,483,508	1,318,276	144,269
Tennessee	1,942,033	1,733,182	189,131
Alabama	1,630,521	1,443,130	174,729
Mississippi	1,021,502	894,477	114,971
East South Central	**6,077,564**	**5,389,065**	**623,100**
Arkansas	1,010,684	884,370	102,641
Louisiana	1,725,993	1,529,807	167,369
Oklahoma	1,458,787	1,270,010	163,776
Texas	6,142,456	5,309,191	744,141
West South Central	**10,337,920**	**8,993,378**	**1,177,927**
Montana	381,352	322,515	52,229
Idaho	436,502	371,981	61,085
Wyoming	239,840	197,614	37,758
Colorado	1,360,112	1,177,837	174,550
New Mexico	547,546	468,309	71,604
Arizona	1,233,464	1,091,354	129,063
Utah	537,964	480,808	47,510
Nevada	379,141	330,386	47,406
Mountain	**5,115,921**	**4,440,804**	**621,205**
Washington	1,848,195	1,639,755	188,390
Oregon	1,199,377	1,046,787	148,504
California	9,950,249	8,678,966	1,198,969
Pacific	**12,997,821**	**11,365,508**	**1,535,863**
Alaska	162,430	139,177	19,263
Hawaii	310,565	268,476	39,893
Alaska & Hawaii	**472,995**	**407,653**	**59,156**

r Revised

TABLE 53A

AVERAGE NUMBER OF CUSTOMERS
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1983p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**73,597,377**	**65,147,205**	**7,809,831**
Maine	517,498	459,568	54,509
New Hampshire	379,889	333,353	43,380
Vermont	190,923	169,160	18,670
Massachusetts	1,998,956	1,790,748	193,714
Rhode Island	379,929	341,804	34,859
Connecticut	1,213,538	1,108,412	96,857
New England	**4,680,733**	**4,203,045**	**441,989**
New York	6,408,795	5,688,867	650,554
New Jersey	2,874,129	2,537,376	317,485
Pennsylvania	4,545,901	4,065,746	444,238
Middle Atlantic	**13,828,825**	**12,291,989**	**1,412,277**
Ohio	3,852,971	3,468,807	345,837
Indiana	1,714,484	1,522,851	172,127
Illinois	4,167,206	3,777,200	372,090
Michigan	3,328,691	3,018,286	295,463
Wisconsin	1,692,515	1,515,077	171,342
East North Central	**14,755,867**	**13,302,221**	**1,356,859**
Minnesota	1,057,209	934,844	112,261
Iowa	922,716	795,130	119,464
Missouri	1,440,433	1,264,514	162,868
North Dakota	191,348	161,167	27,864
South Dakota	165,087	139,344	24,740
Nebraska	—	—	—
Kansas	710,276	624,145	77,557
West North Central	**4,487,069**	**3,919,144**	**524,754**
Delaware	184,242	166,891	16,795
Maryland	1,462,731	1,322,670	135,408
District of Columbia	202,069	177,410	24,459
Virginia	1,790,659	1,602,467	163,826
West Virginia	806,297	712,868	82,717
North Carolina	1,779,634	1,532,079	230,923
South Carolina	838,994	721,651	110,381
Georgia	1,378,561	1,216,019	148,171
Florida	3,887,821	3,469,221	390,093
South Atlantic	**12,331,008**	**10,921,276**	**1,302,773**
Kentucky	884,349	768,494	100,353
Tennessee	35,499	31,882	3,349
Alabama	1,006,583	882,358	119,381
Mississippi	479,912	410,226	63,426
East South Central	**2,406,343**	**2,092,960**	**286,509**
Arkansas	642,340	553,123	69,408
Louisiana	1,335,693	1,176,839	133,459
Oklahoma	1,014,134	884,826	108,542
Texas	4,619,388	3,998,427	549,441
West South Central	**7,611,555**	**6,613,215**	**860,850**
Montana	286,484	241,740	39,135
Idaho	363,939	307,483	53,444
Wyoming	156,327	131,365	22,574
Colorado	913,168	804,673	105,862
New Mexico	389,514	341,098	43,817
Arizona	695,827	608,784	80,813
Utah	421,161	377,983	34,906
Nevada	362,861	317,831	44,574
Mountain	**3,589,281**	**3,130,957**	**425,125**
Washington	841,584	750,276	86,895
Oregon	951,567	829,928	119,253
California	7,784,260	6,807,955	950,287
Pacific	**9,577,411**	**8,388,159**	**1,156,435**
Alaska	12,965	10,677	1,728
Hawaii	316,320	273,562	40,532
Alaska & Hawaii	**329,285**	**284,239**	**42,260**

p Preliminary.

TABLE 53B

AVERAGE NUMBER OF CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1982r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**72,526,832**	**64,241,238**	**7,655,328**
Maine	506,974	450,367	54,769
New Hampshire	371,035	326,002	41,926
Vermont	187,626	165,905	18,567
Massachusetts	1,972,426	1,767,150	189,990
Rhode Island	375,671	338,475	33,900
Connecticut	1,201,737	1,093,066	100,939
New England	**4,615,469**	**4,140,965**	**440,091**
New York	6,355,728	5,642,716	643,905
New Jersey	2,844,284	2,511,658	313,743
Pennsylvania	4,516,969	4,039,490	441,177
Middle Atlantic	**13,716,981**	**12,193,864**	**1,398,825**
Ohio	3,837,851	3,455,559	344,584
Indiana	1,707,603	1,516,793	171,612
Illinois	4,151,851	3,766,389	367,338
Michigan	3,318,304	3,010,551	292,842
Wisconsin	1,680,755	1,505,388	168,629
East North Central	**14,696,364**	**13,254,680**	**1,345,005**
Minnesota	1,044,390	924,415	110,027
Iowa	918,423	792,245	118,570
Missouri	1,429,635	1,255,279	161,319
North Dakota	188,505	158,989	27,213
South Dakota	164,557	138,910	24,567
Nebraska	—	—	—
Kansas	700,913	616,580	75,837
West North Central	**4,446,423**	**3,886,418**	**517,533**
Delaware	181,489	164,541	16,374
Maryland	1,432,690	1,295,830	132,171
District of Columbia	200,085	175,726	24,161
Virginia	1,753,145	1,570,548	158,828
West Virginia	798,378	706,718	81,140
North Carolina	1,736,414	1,495,574	224,395
South Carolina	823,422	708,903	107,570
Georgia	1,350,764	1,192,473	143,892
Florida	3,765,911	3,367,692	371,548
South Atlantic	**12,042,298**	**10,678,005**	**1,260,079**
Kentucky	876,871	762,894	98,717
Tennessee	34,473	30,898	3,309
Alabama	996,597	874,590	117,213
Mississippi	473,955	405,348	62,409
East South Central	**2,381,896**	**2,073,730**	**281,648**
Arkansas	632,349	544,054	68,973
Louisiana	1,311,734	1,158,196	129,126
Oklahoma	990,081	865,602	104,350
Texas	4,417,423	3,826,065	521,821
West South Central	**7,351,587**	**6,393,917**	**824,270**
Montana	281,762	238,324	38,036
Idaho	356,402	303,253	50,160
Wyoming	154,885	130,354	22,198
Colorado	894,053	786,800	104,511
New Mexico	377,909	331,519	41,546
Arizona	672,772	588,275	78,375
Utah	413,427	371,628	34,030
Nevada	356,115	312,079	43,237
Mountain	**3,507,325**	**3,062,232**	**412,093**
Washington	823,375	735,923	83,072
Oregon	940,499	821,593	116,441
California	7,681,792	6,721,355	934,744
Pacific	**9,445,666**	**8,278,871**	**1,134,257**
Alaska	12,258	10,080	1,634
Hawaii	310,565	268,476	39,893
Alaska & Hawaii	**322,823**	**278,556**	**41,527**

r Revised.

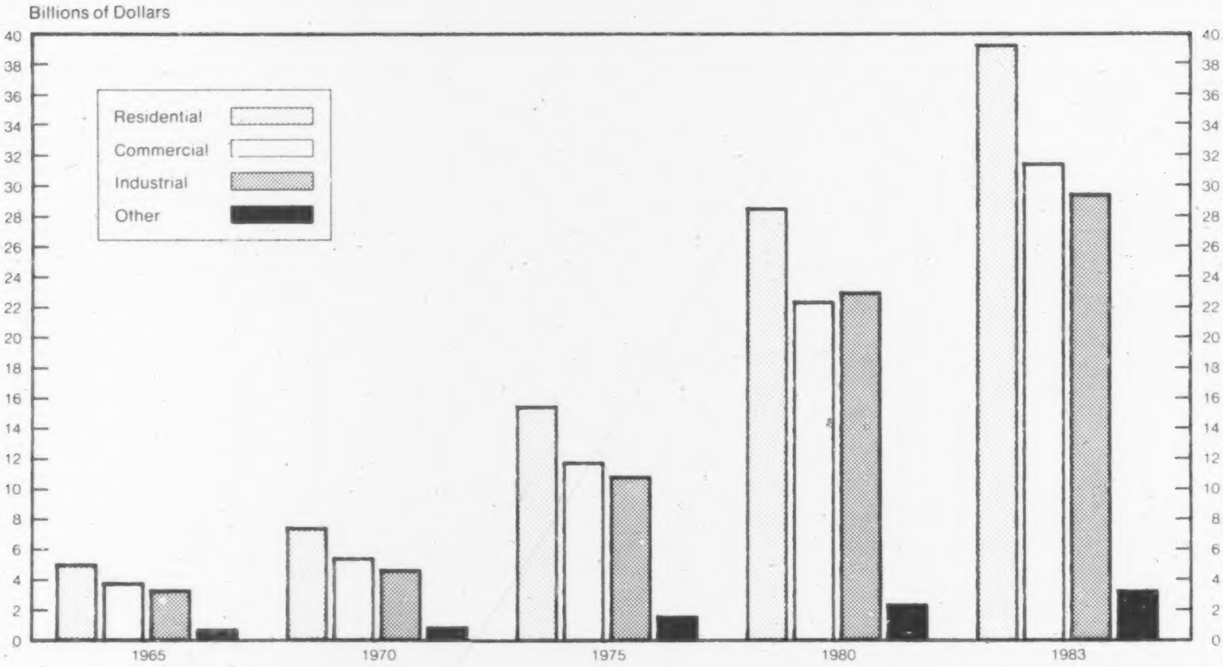
REVENUES

SECTION VIII

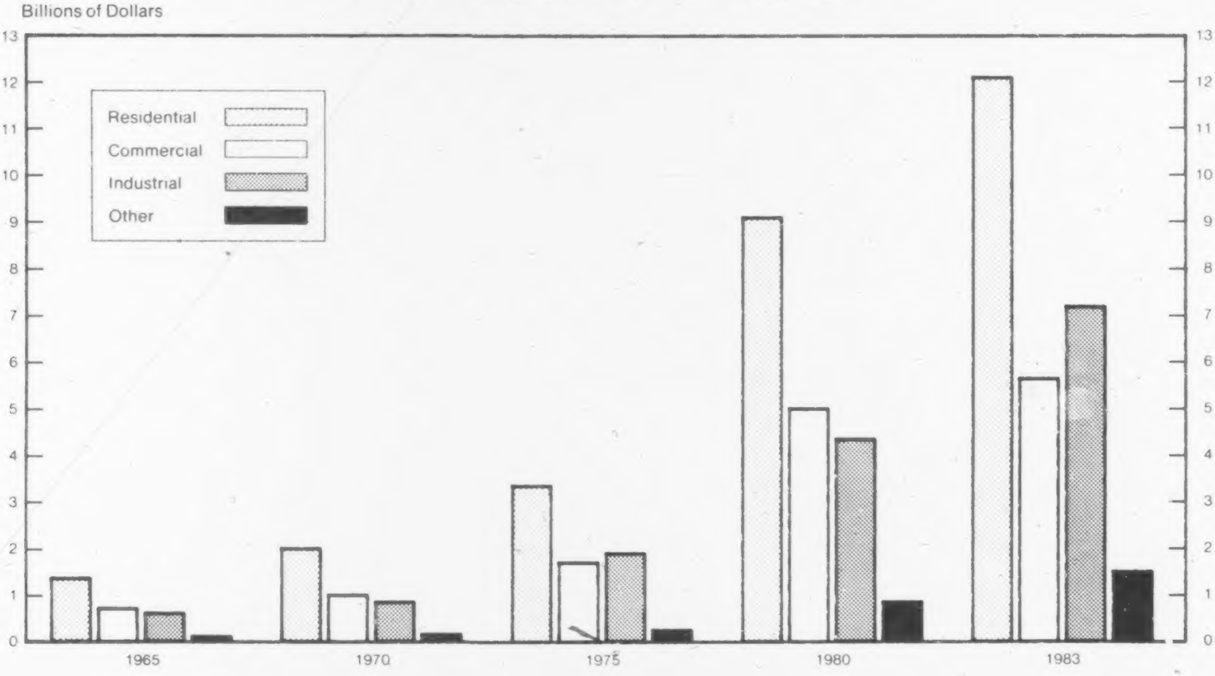
Chart VIII-A

REVENUE FROM ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



NON-INVESTOR-OWNED UTILITIES



Based on Tables 56 and 57, on page 63.

TABLE 56

REVENUES

TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenue from Sales †	Exports to Canada and Mexico	Total from Ultimate Customers	Residential	Commercial *	Industrial *	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1983p	**$129,566,354**	**$7,874**	**$129,558,480**	**$51,261,299**	**$37,089,974**	**$36,525,972**	**$1,322,982**	**$2,854,584**	**$341,475**	**$162,193**
1982r	121,597,243	13,012	121,584,231	47,188,127	34,150,840	35,881,745	1,254,430	2,633,749	291,751	183,589
1981	110,621,610	26,838	110,594,772	42,403,545	31,325,322	33,030,093	1,168,691	2,247,307	253,065	166,749
1980	95,505,802	43,421	95,462,381	37,580,892	27,369,963	27,316,770	1,041,008	1,811,065	207,683	135,000
1979	79,649,846	9,609	79,640,237	30,798,693	22,264,356	23,825,487	918,157	1,517,333	188,628	127,583
1978	69,865,806	12,862	69,852,944	27,381,419	19,714,364	20,280,391	849,677	1,350,439	170,123	106,531
1977	62,629,713	19,684	62,610,029	24,687,500	18,021,548	17,629,321	776,771	1,245,155	145,680	104,054
1976	53,480,659	17,795	53,462,864	21,149,590	15,236,104	14,999,522	724,436	1,112,247	163,840	77,125
1975	46,864,685	11,229	46,853,456	18,803,156	13,486,624	12,707,490	659,332	975,799	159,160	61,895
1974	39,133,322	6,517	39,126,805	15,702,853	11,196,960	10,673,464	573,164	780,010	146,112	54,242
1973	31,668,281	5,422	31,662,859	13,194,773	9,147,188	8,073,636	491,831	620,991	91,903	42,537
1972	27,927,681	6,611	27,921,070	11,729,833	8,041,052	6,983,891	449,831	593,267	85,300	37,896
1971	24,735,122	9,963	24,725,159	10,483,526	7,071,971	6,133,964	411,534	512,772	77,862	33,530
1970	22,076,885	11,023	22,065,862	9,415,707	6,290,225	5,429,852	377,791	453,104	69,169	30,014
1969	20,144,225	4,876	20,139,349	8,532,729	5,704,764	5,044,857	350,563	417,571	62,981	25,884
1968	18,585,368	5,489	18,579,879	7,802,033	5,315,100	4,672,211	327,196	379,435	61,440	22,464
1967	17,226,235	3,515	17,222,720	7,183,908	4,935,911	4,364,759	307,272	349,323	60,609	20,938
1966	16,199,140	3,004	16,196,136	6,733,714	4,649,084	4,134,538	281,584	321,001	59,132	17,083
1965	15,162,538	4,159	15,158,379	6,328,756	4,312,859	3,884,748	262,569	290,892	60,903	17,652
1964	14,413,138	4,680	14,408,458	6,040,681	4,028,198	3,733,369	248,225	278,319	61,702	17,964
1963	13,708,178	10,972	13,697,206	5,722,544	3,788,316	3,596,121	236,448	275,030	61,749	16,998

Note: Total may not equal sum of components due to independent rounding.
† Excludes other electric revenues.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 57

REVENUES

INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenues	Other Revenues †	Total from Ultimate Customers	Residential	Commercial *	Industrial *	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1983p	**$107,739,716**	**$4,632,729**	**$103,106,987**	**$39,162,430**	**$31,445,130**	**$29,314,208**	**$1,060,632**	**$1,901,949**	**$120,285**	**$102,353**
1982r	102,558,213	5,460,375	97,097,838	36,138,384	29,603,969	28,322,848	1,022,473	1,775,494	130,340	104,329
1981	94,266,325	5,497,327	88,768,998	32,622,129	26,370,929	26,986,678	933,861	1,641,632	120,124	93,645
1980	80,635,823	4,460,469	76,175,354	28,492,402	22,351,012	22,970,668	819,762	1,362,136	111,552	67,822
1979	68,151,992	4,274,055	63,877,937	23,613,621	18,463,690	19,801,718	716,209	1,137,987	80,002	64,710
1978	61,298,846	3,683,472	57,615,374	21,623,578	16,784,764	17,379,313	682,895	1,016,671	74,772	53,381
1977	55,141,656	3,364,784	51,776,872	19,541,802	15,404,917	15,092,313	632,154	964,452	90,263	50,971
1976	47,079,734	2,599,312	44,480,422	16,920,314	13,137,482	12,688,950	612,674	935,116	150,173	35,713
1975	41,855,398	2,285,281	39,570,117	15,434,811	11,766,583	10,785,231	558,554	841,853	157,539	25,546
1974	34,970,201	1,784,436	33,185,765	12,881,369	9,737,585	9,243,172	485,472	670,971	144,837	22,359
1973	27,525,926	1,208,947	26,316,979	10,590,178	7,807,644	6,875,953	412,921	522,826	90,753	16,704
1972	24,132,546	1,011,942	23,120,604	9,359,949	6,832,630	5,950,367	378,413	502,910	84,144	12,191
1971	21,230,373	835,581	20,394,792	8,308,330	6,016,096	5,199,601	347,972	435,949	76,701	10,143
1970	18,830,214	722,994	18,107,220	7,424,224	5,314,447	4,591,093	319,373	381,405	68,030	8,648
1969	17,163,515	647,843	16,515,672	6,722,985	4,804,558	4,274,968	296,028	347,078	61,855	8,200
1968	15,809,534	577,493	15,232,041	6,142,073	4,471,545	3,961,473	276,010	313,231	60,295	7,414
1967	14,568,786	513,147	14,055,639	5,639,111	4,125,734	3,679,635	258,324	286,898	59,358	6,579
1966	13,772,851	488,777	13,284,074	5,308,626	3,906,604	3,497,745	240,978	266,626	58,006	5,489
1965	12,886,621	450,470	12,436,151	4,972,016	3,627,566	3,297,495	226,297	247,918	59,772	5,087
1964	12,211,203	428,384	11,782,819	4,728,561	3,366,885	3,173,671	213,703	234,522	60,554	4,923
1963	11,576,560	403,007	11,173,553	4,483,310	3,156,425	3,037,825	202,198	228,045	60,764	4,986

Note: Total may not equal sum of components due to independent rounding.
† Includes revenue from sales to non-investor-owned electric utilities, from exports and other electric revenues.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 58

REVENUES IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE

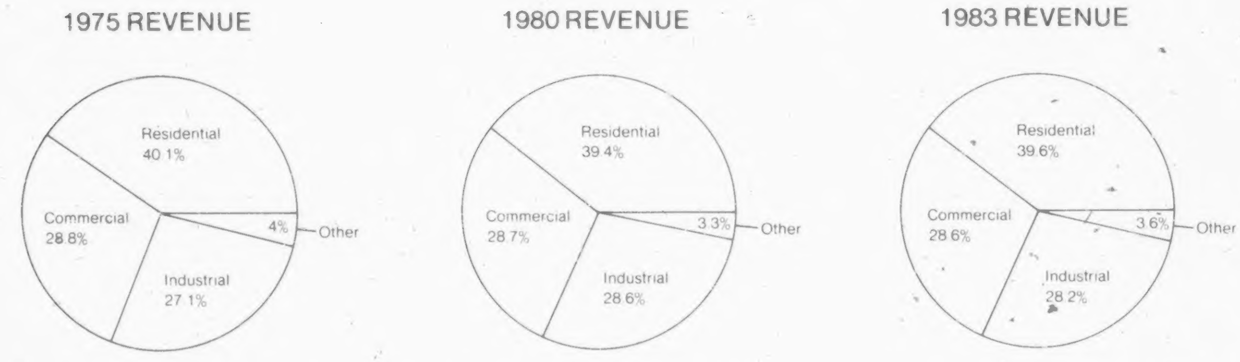
Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1983p	**39.6%**	**28.6%**	**28.2%**	**1.0%**	**2.2%**	**0.3%**	**0.1%**
1982r	38.8	28.1	29.5	1.0	2.2	0.2	0.2
1981	38.3	28.3	29.9	1.1	2.0	0.2	0.2
1980	39.4	28.7	28.6	1.1	1.9	0.2	0.1
1979	38.7	28.0	29.9	1.1	1.9	0.2	0.2
1978	39.2	28.2	29.0	1.2	1.9	0.3	0.2
1977	39.4	28.8	28.2	1.2	2.0	0.2	0.2
1976	39.6	28.5	28.0	1.4	2.1	0.3	0.1
1975	40.1	28.8	27.1	1.4	2.1	0.4	0.1
1974	40.1	28.6	27.3	1.5	2.0	0.4	0.1
1973	41.6	28.9	25.5	1.6	2.0	0.3	0.1
1972	42.0	28.8	25.0	1.6	2.1	0.3	0.2
1971	42.4	28.6	24.8	1.7	2.1	0.3	0.1
1970	42.7	28.5	24.6	1.7	2.1	0.3	0.1
1969	42.4	28.3	25.0	1.8	2.1	0.3	0.1
1968	42.0	28.6	25.2	1.8	2.0	0.3	0.1
1967	41.7	28.7	25.3	1.8	2.0	0.4	0.1
1966	41.6	28.7	25.5	1.7	2.0	0.4	0.1
1965	41.8	28.5	25.6	1.7	1.9	0.4	0.1
1964	41.9	28.0	25.9	1.7	1.9	0.4	0.2
1963	41.8	27.7	26.2	1.7	2.0	0.5	0.1

Based on revenue data in Table 56. p Preliminary. r Revised.

CHART VIII-B

REVENUE

BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
THOUSANDS OF DOLLARS



Total Revenue = $46,853,456 Total Revenue = $95,462,381 Total Revenue = $129,558,480

Based on Table 58, as shown above.

TABLE 59A

REVENUES

TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1983p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$129,558,480**	**$51,261,299**	**$37,089,974**	**$36,525,972**	**$1,322,982**	**$2,854,584**	**$341,475**	**$162,193**
Maine	532,971	222,539	130,204	164,685	8,795	6,670	—	78
New Hampshire	511,715	232,553	103,871	163,803	7,491	3,983	—	15
Vermont	248,837	111,124	48,405	75,887	2,220	11,135	—	66
Massachusetts	2,817,605	1,081,708	1,042,013	599,266	50,194	40,920	3,474	32
Rhode Island	429,181	172,752	145,454	96,943	6,569	7,461	—	2
Connecticut	1,851,625	762,092	634,499	419,407	30,581	2,101	2,291	654
New England	**6,391,933**	**2,582,768**	**2,104,445**	**1,519,991**	**105,850**	**72,269**	**5,765**	**845**
New York	9,705,920	3,315,783	3,857,193	1,607,930	144,518	549,218	229,288	1,990
New Jersey	4,427,369	1,700,127	1,582,104	1,077,179	65,770	—	326	1,863
Pennsylvania	6,148,118	2,390,975	1,485,762	2,147,230	78,176	9,449	32,333	4,193
Middle Atlantic	**20,281,406**	**7,406,886**	**6,925,059**	**4,832,339**	**288,464**	**558,666**	**261,947**	**8,046**
Ohio	6,387,455	2,445,825	1,604,411	2,106,192	51,426	175,112	3,343	1,146
Indiana	3,101,129	1,237,381	571,525	1,249,595	30,464	8,743	1,349	2,073
Illinois	6,738,036	2,630,404	2,056,424	1,662,430	39,599	327,761	21,283	136
Michigan	4,128,596	1,468,235	1,066,496	1,474,823	47,821	66,166	—	5,054
Wisconsin	2,302,063	973,853	635,728	647,656	28,740	12,732	—	3,354
East North Central	**22,657,279**	**8,755,698**	**5,934,584**	**7,140,696**	**198,051**	**590,514**	**25,974**	**11,762**
Minnesota	1,876,226	805,933	329,039	704,891	19,921	15,962	—	480
Iowa	1,501,445	699,499	371,874	389,485	19,001	21,556	—	30
Missouri	2,388,791	1,131,304	759,131	425,965	23,278	47,595	656	862
North Dakota	346,623	164,233	85,485	81,184	3,068	12,551	—	103
South Dakota	295,104	165,355	84,375	36,623	2,857	5,894	—	*
Nebraska	838,035	391,138	277,844	131,494	12,410	23,817	519	814
Kansas	1,469,604	608,833	523,588	311,589	14,800	10,623	—	171
West North Central	**8,715,828**	**3,966,296**	**2,431,335**	**2,081,231**	**95,335**	**137,997**	**1,174**	**2,460**
Delaware	421,881	166,261	111,320	127,042	16,877	170	—	211
Maryland	2,157,826	914,267	590,301	608,104	31,523	5,282	6,736	1,613
District of Columbia	500,622	76,242	262,506	137,545	11,695	—	12,634	—
Virginia	3,072,534	1,406,742	812,551	556,483	27,501	265,033	1,171	3,054
West Virginia	918,270	362,180	209,710	339,449	5,199	1,683	—	49
North Carolina	3,621,822	1,630,687	866,486	1,056,322	23,475	44,504	—	348
South Carolina	2,101,032	861,166	447,415	746,315	8,301	37,471	—	364
Georgia	2,969,906	1,273,343	791,635	867,261	20,615	13,486	3,566	—
Florida	6,650,578	3,561,582	2,047,729	819,196	60,734	153,081	—	8,257
South Atlantic	**22,414,472**	**10,252,470**	**6,139,653**	**5,257,718**	**205,919**	**520,709**	**24,107**	**13,896**
Kentucky	2,304,128	789,288	366,516	1,005,655	11,062	128,680	—	2,927
Tennessee	3,128,195	1,165,961	342,233	1,589,995	20,252	4,884	—	4,870
Alabama	2,606,518	1,045,504	494,019	1,047,152	12,721	4,346	—	2,775
Mississippi	1,345,650	591,583	333,785	389,002	9,853	21,036	—	392
East South Central	**9,384,491**	**3,592,335**	**1,536,552**	**4,031,804**	**53,889**	**158,946**	**—**	**10,964**
Arkansas	1,266,177	595,180	274,908	363,517	7,563	24,608	312	—
Louisiana	3,016,688	1,144,084	637,790	1,065,804	21,062	90,128	—	57,819
Oklahoma	1,990,135	863,267	542,392	410,181	8,762	165,533	—	—
Texas	11,841,125	4,428,373	3,139,006	3,934,087	79,891	240,600	—	19,167
West South Central	**18,114,123**	**7,030,904**	**4,594,186**	**5,773,588**	**117,278**	**520,869**	**312**	**76,986**
Montana	333,281	130,393	94,471	102,310	3,379	2,305	—	422
Idaho	486,294	188,890	149,143	144,042	4,099	120	—	—
Wyoming	359,133	85,393	79,836	189,732	1,421	2,557	—	195
Colorado	1,288,469	514,538	562,045	184,156	17,298	9,246	—	1,186
New Mexico	672,598	221,419	240,674	168,177	5,403	34,444	—	2,480
Arizona	1,835,379	794,713	623,930	368,705	19,926	21,232	1,409	5,464
Utah	706,935	252,085	209,073	208,523	7,499	29,691	—	64
Nevada	564,185	221,676	175,761	151,122	5,368	10,241	—	17
Mountain	**6,246,275**	**2,409,107**	**2,134,933**	**1,516,769**	**64,392**	**109,837**	**1,409**	**9,828**
Washington	1,925,498	797,302	428,782	661,352	16,329	20,956	439	337
Oregon	1,294,400	515,132	388,492	375,886	12,505	1,720	—	665
California	11,198,691	3,624,845	4,196,846	3,031,773	156,494	142,914	20,307	25,512
Pacific	**14,418,589**	**4,937,279**	**5,014,120**	**4,069,011**	**185,328**	**165,590**	**20,746**	**26,514**
Alaska	277,558	122,645	109,291	23,132	2,371	19,187	41	891
Hawaii	656,524	204,912	165,816	279,692	6,105	—	—	—
Alaska & Hawaii	**934,082**	**327,557**	**275,107**	**302,824**	**8,476**	**19,187**	**41**	**891**

Note: Total may not equal sum of components due to independent rounding.

p Preliminary.

** Less than five hundred dollars.*

TABLE 59B

REVENUES

TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1982r—THOUSANDS OF DOLLARS

Division/State	Total From Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$121,584,231**	**$47,188,127**	**$34,150,840**	**$35,881,745**	**$1,254,430**	**$2,633,749**	**$291,751**	**$183,589**
Maine	496,066	210,718	113,232	157,015	8,513	6,517	—	72
New Hampshire	471,829	214,352	93,458	153,436	7,399	3,185	—	—
Vermont	235,106	110,133	44,766	66,909	2,051	11,230	—	17
Massachusetts	2,636,597	1,012,733	977,092	551,725	49,194	39,419	6,408	25
Rhode Island	391,536	157,121	130,226	90,416	6,231	7,541	—	—
Connecticut	1,737,714	718,768	591,458	395,719	29,474	1,681	40	573
New England	**5,968,848**	**2,423,825**	**1,950,232**	**1,415,221**	**102,862**	**69,574**	**6,448**	**687**
New York	8,918,905	3,019,754	3,459,214	1,641,853	139,039	486,060	170,578	2,407
New Jersey	4,242,410	1,557,325	1,522,274	1,097,466	63,223	—	414	1,709
Pennsylvania	6,055,465	2,276,959	1,426,051	2,216,403	75,476	10,266	45,928	4,382
Middle Atlantic	**19,216,780**	**6,854,038**	**6,407,538**	**4,955,722**	**277,737**	**496,327**	**216,920**	**8,498**
Ohio	5,871,708	2,210,934	1,476,887	1,967,071	49,039	163,583	3,187	1,007
Indiana	2,808,651	1,114,141	514,749	1,140,376	27,003	7,960	1,076	3,345
Illinois	5,984,103	2,143,754	1,887,895	1,586,467	37,165	310,227	18,400	195
Michigan	3,826,024	1,321,723	991,122	1,392,706	45,024	70,208	—	5,241
Wisconsin	2,126,578	909,127	578,973	584,055	32,377	18,779	—	3,265
East North Central	**20,617,064**	**7,699,679**	**5,449,627**	**6,670,675**	**190,609**	**570,757**	**22,663**	**13,053**
Minnesota	1,774,299	763,196	293,620	674,687	18,935	23,176	—	685
Iowa	1,366,693	625,555	331,986	373,119	17,320	18,677	—	37
Missouri	2,118,102	964,516	670,221	416,902	21,361	43,470	709	922
North Dakota	314,986	155,381	61,748	86,170	926	10,661	—	99
South Dakota	264,479	150,508	67,631	38,053	2,639	5,648	—	*
Nebraska	658,665	287,176	217,021	122,574	10,576	20,175	468	676
Kansas	1,269,091	498,423	429,547	315,783	13,168	11,995	—	175
West North Central	**7,766,316**	**3,444,754**	**2,071,775**	**2,027,287**	**84,925**	**133,803**	**1,177**	**2,595**
Delaware	393,654	156,023	106,224	128,107	2,525	159	—	616
Maryland	2,061,704	842,287	549,511	626,375	30,364	4,518	6,615	2,034
District of Columbia	460,825	66,812	242,078	127,387	11,938	—	12,610	—
Virginia	2,810,769	1,267,714	732,537	545,735	21,883	238,922	1,216	2,761
West Virginia	898,615	345,654	199,907	346,407	4,930	1,683	—	34
North Carolina	3,304,425	1,484,013	784,088	971,903	22,361	41,839	—	222
South Carolina	1,910,847	763,065	398,857	718,774	7,908	21,900	—	343
Georgia	2,881,140	1,227,707	723,001	895,381	18,862	12,895	3,294	—
Florida	6,228,526	3,232,214	1,997,045	781,049	63,207	147,638	—	7,374
South Atlantic	**20,950,505**	**9,385,491**	**5,733,247**	**5,141,117**	**183,977**	**469,554**	**23,735**	**13,384**
Kentucky	2,123,929	699,714	308,121	1,016,748	10,395	88,402	—	550
Tennessee	3,088,908	1,144,632	264,007	1,627,584	20,493	6,177	—	26,014
Alabama	2,492,837	983,718	443,904	1,046,024	11,834	3,287	—	4,069
Mississippi	1,298,004	573,513	282,864	409,678	9,558	22,391	—	—
East South Central	**9,003,678**	**3,401,578**	**1,298,896**	**4,100,035**	**52,280**	**120,257**	**—**	**30,632**
Arkansas	1,118,214	522,167	228,009	338,607	6,689	22,464	278	—
Louisiana	2,886,929	1,079,990	574,962	1,074,032	18,413	86,498	—	53,033
Oklahoma	1,782,313	770,753	448,653	404,459	7,626	150,823	—	—
Texas	11,141,329	4,212,946	2,854,077	3,781,793	71,478	203,419	—	17,615
West South Central	**16,928,784**	**6,585,856**	**4,105,701**	**5,598,891**	**104,205**	**463,205**	**278**	**70,648**
Montana	296,692	116,353	71,748	102,988	2,910	2,235	—	459
Idaho	445,741	178,403	126,892	136,382	3,948	116	—	—
Wyoming	293,939	76,524	58,217	155,297	1,217	2,510	—	175
Colorado	1,255,837	486,250	508,775	227,156	21,941	10,523	—	1,191
New Mexico	659,215	209,808	209,281	196,481	5,221	33,946	—	4,478
Arizona	1,679,585	671,382	567,016	390,388	16,245	28,416	1,398	4,741
Utah	629,706	229,736	172,355	196,878	6,252	24,454	—	30
Nevada	533,215	205,332	163,670	146,712	4,924	8,461	—	4,115
Mountain	**5,793,931**	**2,173,787**	**1,877,954**	**1,552,283**	**62,658**	**110,662**	**1,398**	**15,189**
Washington	1,648,378	697,720	378,157	538,139	14,769	18,515	418	659
Oregon	1,201,256	490,466	361,221	335,746	11,174	2,028	—	621
California	11,544,155	3,709,938	4,276,116	3,187,959	160,410	163,813	18,685	27,235
Pacific	**14,393,788**	**4,898,124**	**5,015,494**	**4,061,844**	**186,353**	**184,356**	**19,103**	**28,515**
Alaska	223,906	99,457	63,551	43,102	2,122	15,256	30	388
Hawaii	720,632	221,539	176,825	315,566	6,702	—	—	—
Alaska & Hawaii	**944,538**	**320,996**	**240,376**	**358,668**	**8,823**	**15,256**	**30**	**388**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
** Less than five hundred dollars.*

TABLE 60A

REVENUES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1983p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
Total United States	**$103,106,987**	**$39,162,430**	**$31,445,130**	**$29,314,208**	**$1,060,632**	**$1,901,949**	**$120,285**	**$102,353**
Maine	515,570	212,790	127,545	160,394	8,559	6,282	—	—
New Hampshire	473,441	208,675	96,863	156,836	7,385	3,682	—	—
Vermont	200,722	86,287	40,063	62,010	1,782	10,580	—	—
Massachusetts	2,477,292	937,731	971,984	494,494	47,263	22,345	3,474	2
Rhode Island	427,087	171,372	145,175	96,531	6,549	7,461	—	—
Connecticut	1,757,347	734,784	613,071	378,005	29,196	—	2,291	—
New England	**5,851,458**	**2,351,639**	**1,994,701**	**1,348,269**	**100,733**	**50,349**	**5,765**	**2**
New York	8,881,946	3,281,928	3,839,976	1,478,860	81,087	185,656	12,803	1,636
New Jersey	4,375,506	1,672,878	1,573,534	1,061,403	65,504	—	326	1,863
Pennsylvania	5,975,386	2,264,438	1,459,350	2,131,462	75,038	8,572	32,333	4,193
Middle Atlantic	**19,232,839**	**7,219,244**	**6,872,860**	**4,671,725**	**221,630**	**194,227**	**45,462**	**7,691**
Ohio	5,896,720	2,169,121	1,508,917	2,006,803	49,442	157,947	3,343	1,146
Indiana	2,588,885	913,992	490,430	1,148,621	26,156	6,266	1,349	2,073
Illinois	6,295,649	2,382,700	1,921,779	1,611,224	38,577	319,951	21,283	136
Michigan	3,795,341	1,326,218	978,421	1,406,564	44,351	35,712	—	4,075
Wisconsin	1,955,783	783,816	583,863	550,757	24,977	10,968	—	1,402
East North Central	**20,532,378**	**7,575,847**	**5,483,410**	**6,723,969**	**183,503**	**530,844**	**25,974**	**8,831**
Minnesota	1,270,556	407,411	205,109	629,329	15,618	12,924	—	167
Iowa	1,155,619	473,179	312,638	336,118	15,925	17,728	—	30
Missouri	1,760,517	748,632	628,720	342,870	19,921	20,099	—	274
North Dakota	197,968	90,163	48,681	51,974	2,994	4,053	—	103
South Dakota	171,793	78,528	61,587	27,501	2,468	1,709	—	*
Nebraska	—	—	—	—	—	—	—	—
Kansas	958,662	405,473	316,006	223,509	12,219	1,328	—	128
West North Central	**5,515,116**	**2,203,387**	**1,572,741**	**1,611,301**	**69,145**	**57,841**	**—**	**701**
Delaware	330,783	126,330	93,075	108,599	2,568	—	—	211
Maryland	2,024,852	835,162	549,584	600,511	30,329	916	6,736	1,613
District of Columbia	500,622	76,242	262,506	137,545	11,695	—	12,634	—
Virginia	2,718,082	1,192,019	738,697	500,426	25,524	260,246	1,171	—
West Virginia	913,742	359,345	208,335	339,134	5,196	1,682	—	49
North Carolina	2,767,677	1,110,081	704,767	901,869	18,566	32,086	—	307
South Carolina	1,495,946	541,523	343,017	586,058	6,876	18,108	—	364
Georgia	2,246,495	748,615	697,282	774,369	18,774	3,889	3,566	—
Florida	5,131,771	2,737,801	1,646,713	563,025	43,994	133,070	—	7,167
South Atlantic	**18,129,970**	**7,727,118**	**5,243,976**	**4,511,537**	**163,524**	**449,997**	**24,107**	**9,712**
Kentucky	1,156,536	435,324	277,538	307,029	9,278	126,710	—	656
Tennessee	54,432	24,626	11,817	16,484	285	1,219	—	—
Alabama	1,668,659	629,478	398,827	631,440	8,825	—	—	89
Mississippi	751,548	278,784	221,685	225,701	7,773	17,605	—	—
East South Central	**3,631,175**	**1,368,212**	**909,867**	**1,180,655**	**26,161**	**145,534**	**—**	**745**
Arkansas	882,270	361,383	202,661	291,824	6,071	20,332	—	—
Louisiana	2,555,882	845,635	537,556	1,010,900	19,966	84,006	—	57,819
Oklahoma	1,331,057	557,074	374,003	318,191	8,387	73,403	—	—
Texas	9,561,350	3,367,657	2,489,640	3,452,374	64,488	186,308	—	883
West South Central	**14,330,559**	**5,131,749**	**3,603,859**	**5,073,289**	**98,912**	**364,050**	**—**	**58,702**
Montana	222,100	86,459	69,874	60,739	3,218	1,408	—	401
Idaho	419,223	158,157	124,607	133,419	2,970	70	—	—
Wyoming	212,617	47,123	42,308	121,086	1,421	490	—	189
Colorado	861,821	320,832	415,914	104,269	14,872	5,879	—	55
New Mexico	492,655	157,223	169,662	129,170	4,891	29,373	—	2,337
Arizona	1,093,649	441,187	392,035	237,969	10,274	10,041	—	2,142
Utah	582,807	213,043	165,244	177,252	5,296	21,944	—	28
Nevada	532,079	212,144	166,641	138,025	5,352	9,918	—	—
Mountain	**4,416,950**	**1,636,168**	**1,546,285**	**1,101,929**	**48,294**	**79,122**	**—**	**5,152**
Washington	722,940	397,966	227,915	89,259	7,801	—	—	—
Oregon	981,430	394,924	322,262	251,833	11,819	274	—	317
California	9,083,511	2,942,434	3,493,427	2,468,360	122,911	26,944	18,937	10,498
Pacific	**10,787,881**	**3,735,324**	**4,043,604**	**2,809,452**	**142,531**	**27,218**	**18,937**	**10,816**
Alaska	22,137	8,831	8,012	2,392	95	2,766	41	—
Hawaii	656,524	204,912	165,816	279,692	6,105	—	—	—
Alaska & Hawaii	**678,661**	**213,744**	**173,827**	**282,084**	**6,200**	**2,766**	**41**	**—**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary
** Less than five hundred dollars*

TABLE 60B

REVENUES

INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1982r—THOUSANDS OF DOLLARS

Division/State	Total From Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$97,097,838**	**$36,138,384**	**$29,603,969**	**$28,322,848**	**$1,022,473**	**$1,775,494**	**$130,340**	**$104,329**
Maine	481,487	202,269	110,902	153,828	8,370	6,118	—	—
New Hampshire	436,209	191,664	87,159	147,257	7,255	2,874	—	—
Vermont	193,530	87,381	36,114	57,686	1,687	10,662	—	—
Massachusetts	2,309,996	875,530	911,850	448,629	46,581	20,998	6,408	—
Rhode Island	389,716	155,928	130,014	90,035	6,198	7,541	—	—
Connecticut	1,673,260	700,080	576,913	367,628	28,598	—	40	—
New England	**5,484,199**	**2,212,854**	**1,852,953**	**1,265,063**	**98,688**	**48,194**	**6,448**	**—**
New York	8,214,315	2,989,451	3,442,397	1,517,418	77,695	171,330	13,922	2,102
New Jersey	4,193,895	1,533,034	1,514,297	1,081,761	62,680	—	414	1,709
Pennsylvania	5,900,847	2,165,150	1,409,150	2,194,380	72,444	9,413	45,928	4,382
Middle Atlantic	**18,309,057**	**6,687,635**	**6,365,844**	**4,793,559**	**212,819**	**180,743**	**60,264**	**8,193**
Ohio	5,423,131	1,952,207	1,404,120	1,868,019	47,220	147,501	3,187	875
Indiana	2,341,737	821,021	461,648	1,025,819	23,104	5,724	1,076	3,345
Illinois	5,570,323	1,924,502	1,779,218	1,509,224	36,264	302,521	18,400	195
Michigan	3,503,431	1,182,935	917,756	1,319,190	41,510	37,932	—	4,108
Wisconsin	1,823,726	731,726	536,384	508,449	28,862	17,082	—	1,223
East North Central	**18,662,348**	**6,612,391**	**5,099,126**	**6,230,702**	**176,960**	**510,760**	**22,663**	**9,746**
Minnesota	1,203,062	389,245	196,419	585,834	14,836	16,532	—	196
Iowa	1,044,790	414,130	285,199	315,538	14,516	15,370	—	37
Missouri	1,554,448	627,294	567,607	323,148	18,244	17,994	—	161
North Dakota	187,137	87,277	46,342	48,845	904	3,670	—	99
South Dakota	151,422	70,711	54,400	22,396	2,280	1,635	—	*
Nebraska	—	—	—	—	—	—	—	—
Kansas	811,575	327,270	270,039	200,841	10,838	2,456	—	131
West North Central	**4,952,434**	**1,915,927**	**1,420,007**	**1,496,602**	**61,618**	**57,657**	**—**	**624**
Delaware	318,933	117,477	90,045	108,270	2,525	—	—	616
Maryland	1,944,670	772,749	531,302	601,880	29,214	876	6,615	2,034
District of Columbia	460,825	66,812	242,078	127,387	11,938	—	12,610	—
Virginia	2,494,787	1,078,642	686,052	473,631	20,210	235,036	1,216	—
West Virginia	894,369	343,050	198,731	345,944	4,928	1,682	—	34
North Carolina	2,529,660	1,014,363	653,382	813,573	17,729	30,417	—	196
South Carolina	1,365,133	491,988	316,535	533,372	6,541	16,354	—	343
Georgia	2,149,634	701,296	671,594	752,579	17,189	3,682	3,294	—
Florida	4,825,126	2,494,380	1,573,110	577,213	46,018	128,455	—	5,950
South Atlantic	**16,983,136**	**7,080,756**	**4,962,829**	**4,333,849**	**156,292**	**416,502**	**23,735**	**9,173**
Kentucky	1,012,299	380,149	252,608	283,813	8,537	86,643	—	550
Tennessee	48,454	22,420	11,260	13,329	275	1,170	—	—
Alabama	1,558,126	578,290	371,581	600,218	7,946	—	—	91
Mississippi	729,197	272,711	215,622	214,863	7,367	18,634	—	—
East South Central	**3,348,076**	**1,253,570**	**851,071**	**1,112,223**	**24,125**	**106,447**	**—**	**641**
Arkansas	788,899	323,345	181,432	260,186	5,369	18,567	—	—
Louisiana	2,463,713	805,049	498,921	1,008,694	17,454	80,562	—	53,033
Oklahoma	1,207,792	504,928	338,599	290,090	7,300	66,875	—	—
Texas	9,066,590	3,243,135	2,334,728	3,264,064	57,890	165,986	—	787
West South Central	**13,526,994**	**4,876,457**	**3,353,680**	**4,823,034**	**88,013**	**331,990**	**—**	**53,820**
Montana	190,167	76,368	57,809	51,540	2,870	1,140	—	439
Idaho	386,513	150,376	106,160	127,046	2,861	70	—	—
Wyoming	162,855	41,371	35,449	84,319	1,217	324	—	175
Colorado	845,180	304,836	395,460	118,153	19,225	7,421	—	85
New Mexico	487,530	155,239	165,662	128,527	4,773	29,031	—	4,298
Arizona	993,522	365,746	366,997	236,175	11,123	12,879	—	602
Utah	518,857	193,320	142,304	158,911	6,252	18,046	—	24
Nevada	502,923	198,230	156,501	130,999	4,924	8,165	—	4,104
Mountain	**4,087,545**	**1,485,486**	**1,426,342**	**1,035,670**	**53,245**	**77,076**	**—**	**9,727**
Washington	626,406	334,405	205,653	79,348	7,000	—	—	—
Oregon	923,227	379,487	303,226	229,144	10,776	273	—	321
California	9,456,745	3,070,802	3,580,424	2,606,301	126,151	43,785	17,199	12,084
Pacific	**11,006,378**	**3,784,694**	**4,089,303**	**2,914,793**	**143,927**	**44,058**	**17,199**	**12,405**
Alaska	17,039	7,077	5,990	1,788	85	2,068	30	—
Hawaii	720,632	221,539	176,825	315,566	6,702	—	—	—
Alaska & Hawaii	**737,671**	**228,616**	**182,815**	**317,354**	**6,787**	**2,068**	**30**	**—**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
** Less than five hundred dollars.*

TABLE 61

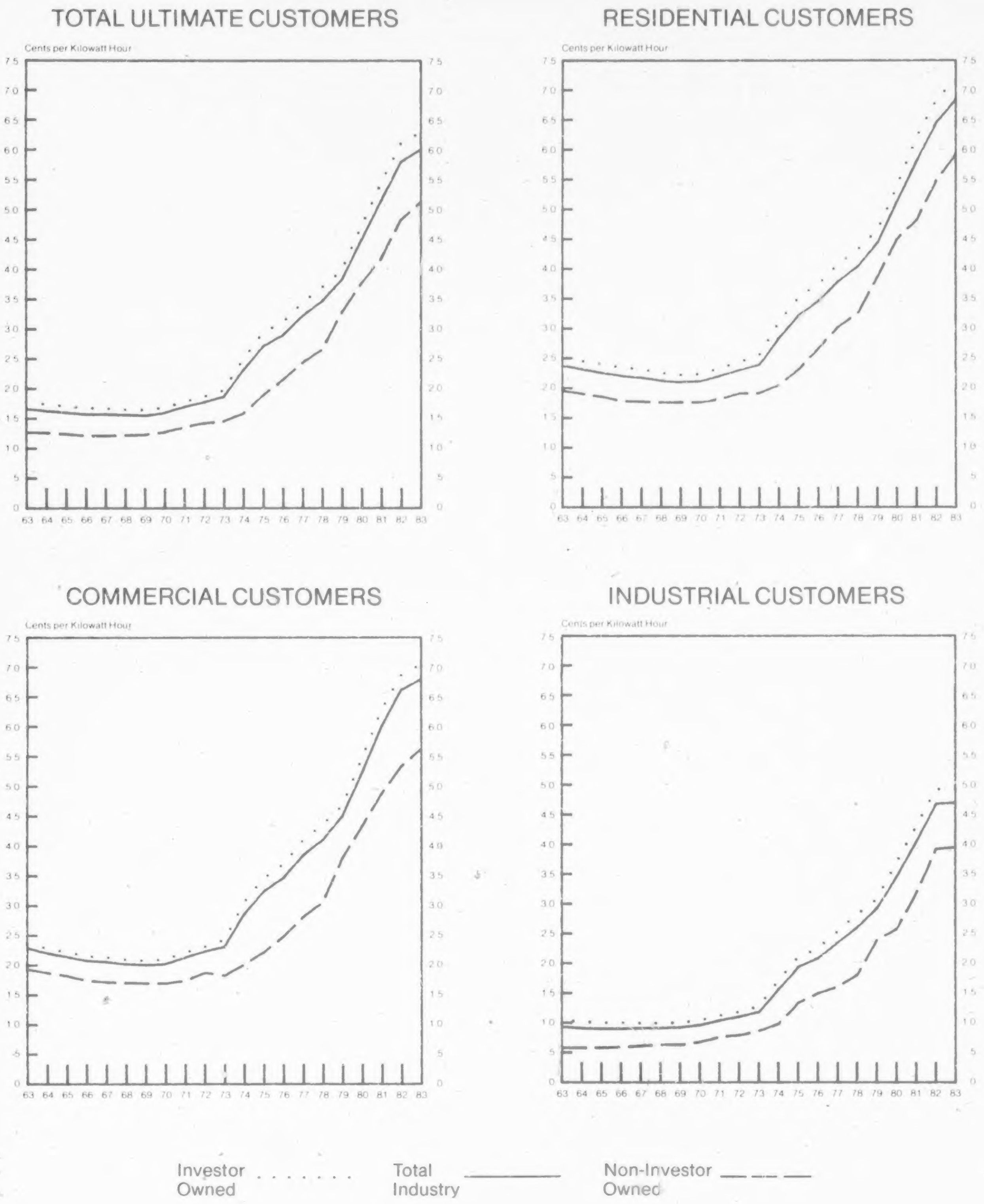
REVENUES
TOTAL ELECTRIC UTILITY INDUSTRY

BY QUARTER AND CLASS OF SERVICE
1978-1983—THOUSANDS OF DOLLARS

Year—Quarter	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR—1983p								
First Quarter	$ 30,520,460	$12,393,333	$ 8,490,973	$ 8,508,477	$ 335,043	$ 681,247	$ 75,712	$ 35,675
Second Quarter	29,389,076	10,927,044	8,512,441	8,841,270	316,429	669,544	82,429	39,919
Third Quarter	37,683,296	15,863,419	10,761,897	9,807,734	332,515	766,209	104,934	46,588
Fourth Quarter	31,965,646	12,077,503	9,324,664	9,368,490	338,994	737,584	78,398	40,013
Total	**$129,558,480**	**$51,261,299**	**$37,089,972**	**$36,525,972**	**$1,322,982**	**$2,854,584**	**$341,475**	**$162,193**
YEAR—1982r								
First Quarter	$ 30,463,093	$12,200,151	$ 8,280,893	$ 8,899,615	$ 318,995	$ 642,501	$ 72,685	$ 48,253
Second Quarter	28,541,959	10,501,618	8,055,672	8,907,001	302,569	664,163	71,559	39,377
Third Quarter	33,376,269	13,260,202	9,542,893	9,441,965	287,525	714,244	80,494	48,946
Fourth Quarter	29,202,910	11,226,156	8,271,382	8,633,164	345,341	612,841	67,013	47,013
Total	**$121,584,231**	**$47,188,127**	**$34,150,840**	**$35,881,745**	**$1,254,430**	**$2,633,749**	**$291,751**	**$183,589**
YEAR—1981								
First Quarter	$ 25,686,611	$10,110,046	$ 7,089,319	$ 7,546,365	$ 296,607	$ 544,260	$ 66,646	$ 33,368
Second Quarter	25,819,668	9,289,946	7,438,965	8,162,872	289,770	538,458	60,311	39,346
Third Quarter	31,858,386	12,784,247	9,067,498	8,996,668	289,742	612,061	59,943	48,227
Fourth Quarter	27,230,107	10,219,306	7,729,540	8,324,188	292,572	552,528	66,165	45,808
Total	**$110,594,772**	**$42,403,545**	**$31,325,322**	**$33,030,093**	**$1,168,691**	**$2,247,307**	**$253,065**	**$166,749**
YEAR—1980								
First Quarter	$ 22,255,055	$ 9,012,476	$ 6,139,359	$ 6,343,392	$ 248,705	$ 423,601	$ 52,174	$ 35,348
Second Quarter	21,956,565	8,176,526	6,380,759	6,636,811	255,417	430,125	49,864	27,063
Third Quarter	27,130,771	11,255,679	7,907,105	7,130,519	263,211	486,375	52,362	35,520
Fourth Quarter	24,119,990	9,136,211	6,942,740	7,206,048	273,675	470,964	53,283	37,069
Total	**$ 95,462,381**	**$37,580,892**	**$27,369,963**	**$27,316,770**	**$1,041,008**	**$1,811,065**	**$207,683**	**$135,000**
YEAR—1979								
First Quarter	$ 19,328,205	$ 7,927,947	$ 5,199,593	$ 5,540,983	$ 222,305	$ 357,596	$ 48,594	$ 31,187
Second Quarter	18,613,859	6,798,472	5,260,442	5,894,246	224,518	354,080	48,527	33,574
Third Quarter	21,702,136	8,592,823	6,189,947	6,217,460	229,159	398,763	43,570	30,414
Fourth Quarter	19,996,037	7,479,451	5,614,374	6,172,798	242,175	406,894	47,937	32,408
Total	**$ 79,640,237**	**$30,798,693**	**$22,264,356**	**$23,825,487**	**$ 918,157**	**$1,517,333**	**$188,628**	**$127,583**
YEAR—1978								
First Quarter	$ 16,947,807	$ 7,040,372	$ 4,660,507	$ 4,621,431	$ 208,507	$ 338,151	$ 48,769	$ 30,070
Second Quarter	16,356,651	6,072,539	4,662,337	5,026,512	204,415	323,760	37,984	29,104
Third Quarter	19,249,686	7,722,661	5,528,365	5,372,449	214,027	350,584	41,464	20,136
Fourth Quarter	17,298,800	6,545,847	4,863,155	5,259,999	222,728	337,944	41,906	27,221
Total	**$ 69,852,944**	**$27,381,419**	**$19,714,364**	**$20,280,391**	**$ 849,677**	**$1,350,439**	**$170,123**	**$106,531**

Note: Total may not equal sum of components due to independent rounding
p Preliminary r Revised

CHART VIII-C
AVERAGE REVENUES PER KWH SOLD


TOTAL ULTIMATE CUSTOMERS

RESIDENTIAL CUSTOMERS

COMMERCIAL CUSTOMERS

INDUSTRIAL CUSTOMERS

Based on sales data in Tables 38 and 39, page 43, and revenue data in Tables 56 and 57, page 63.

TABLE 62

AVERAGE REVENUES PER KILOWATT-HOUR SOLD
TOTAL ELECTRIC UTILITY INDUSTRY

CENTS PER KILOWATT-HOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1983p	**6.83¢**	**6.79¢**	**4.68¢**	**9.41¢**	**5.03¢**	**7.95¢**	**6.00¢**
1982r	6.44	6.61	4.66	8.81	4.72	6.80	5.79
1981	5.80	6.00	4.03	7.96	4.18	6.02	5.14
1980	5.12	5.22	3.44	7.02	3.75	4.86	4.49
1979	4.43	4.50	2.91	6.21	3.06	4.43	3.82
1978	4.03	4.10	2.59	5.74	2.73	3.92	3.46
1977	3.78	3.84	2.33	5.39	2.69	3.46	3.21
1976	3.45	3.46	2.07	5.03	2.44	3.78	2.89
1975	3.21	3.23	1.92	4.74	2.24	3.72	2.70
1974	2.83	2.85	1.55	4.31	1.92	3.43	2.30
1973	2.38	2.30	1.17	3.83	1.47	2.20	1.86
1972	2.29	2.22	1.09	3.69	1.37	1.92	1.77
1971	2.19	2.12	1.03	3.53	1.29	1.72	1.69
1970	2.10	2.01	0.95	3.38	1.20	1.49	1.59
1969	2.09	1.99	0.91	3.25	1.16	1.39	1.54
1968	2.12	2.00	0.90	3.18	1.18	1.35	1.55
1967	2.17	2.04	0.90	3.12	1.19	1.33	1.56
1966	2.20	2.06	0.89	3.05	1.24	1.31	1.56
1965	2.25	2.13	0.90	2.99	1.34	1.31	1.59
1964	2.31	2.19	0.91	2.99	1.35	1.31	1.62
1963	2.37	2.28	0.93	3.05	1.36	1.32	1.65

Based on sales data in Table 38 and revenue data in Table 56. p Preliminary. r Revised.

TABLE 63

AVERAGE REVENUES PER KILOWATT-HOUR SOLD
INVESTOR-OWNED ELECTRIC UTILITIES

CENTS PER KILOWATT-HOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1983p	**7.17¢**	**7.05¢**	**4.91¢**	**10.15¢**	**5.22¢**	**6.24¢**	**6.29¢**
1982r	6.81	6.86	4.91	9.54	4.80	6.77	6.10
1981	6.19	6.28	4.29	8.55	4.36	6.20	5.45
1980	5.36	5.47	3.68	7.58	3.95	5.17	4.72
1979	4.63	4.68	3.06	6.60	3.33	3.80	3.99
1978	4.31	4.36	2.80	6.18	2.96	3.59	3.70
1977	4.06	4.10	2.52	5.79	2.90	3.68	3.44
1976	3.73	3.69	2.23	5.43	2.69	3.82	3.11
1975	3.51	3.46	2.09	5.14	2.51	3.79	2.94
1974	3.09	3.05	1.70	4.66	2.17	3.48	2.50
1973	2.54	2.42	1.26	4.12	1.61	2.22	1.97
1972	2.42	2.30	1.17	3.95	1.50	1.94	1.86
1971	2.32	2.21	1.11	3.78	1.42	1.73	1.78
1970	2.22	2.09	1.03	3.62	1.33	1.51	1.68
1969	2.21	2.06	0.99	3.51	1.29	1.40	1.63
1968	2.25	2.08	0.98	3.41	1.31	1.36	1.64
1967	2.31	2.12	0.99	3.36	1.32	1.34	1.66
1966	2.34	2.14	0.99	3.30	1.37	1.32	1.67
1965	2.40	2.21	1.00	3.26	1.40	1.32	1.70
1964	2.45	2.27	1.02	3.24	1.41	1.31	1.73
1963	2.52	2.36	1.04	3.23	1.44	1.33	1.77

Based on sales data in Table 39 and revenue data in Table 57. p Preliminary. r Revised.

TABLE 64

AVERAGE ANNUAL REVENUE PER CUSTOMER

TOTAL ELECTRIC UTILITY INDUSTRY				INVESTOR-OWNED ELECTRIC UTILITIES			
Year	Total Ultimate Customers	Residential	Commercial	Year	Total Ultimate Customer	Residential	Commercial
1983p	**$1,347.81**	**$602.65**	**$3,638.84**	**1983p**	**$1,400.96**	**$601.14**	**$4,026.35**
1982r	1,285.29	563.09	3,452.36	1982r	1,338.79	562.54	3,867.11
1981	1,184.08	512.30	3,206.52	1981	1,239.87	514.38	3,499.79
1980	1,040.22	461.81	2,848.00	1980	1,083.26	457.29	3,022.55
1979	897.17	391.30	2,394.04	1979	928.41	387.34	2,555.09
1978	807.12	356.74	2,176.91	1978	858.50	363.56	2,384.37
1977	739.86	328.99	2,031.41	1977	789.43	336.24	2,234.30
1976	646.33	288.39	1,754.26	1976	692.11	297.14	1,942.05
1975	579.03	262.26	1,579.55	1975	626.39	275.86	1,763.39
1974	493.43	223.73	1,327.40	1974	534.25	234.33	1,474.97
1973	408.14	192.35	1,096.55	1973	433.66	197.38	1,197.68
1972	371.01	176.39	988.78	1972	391.66	179.49	1,071.15
1971	336.46	161.49	888.75	1971	354.57	163.64	961.77
1970	307.36	148.58	803.54	1970	321.42	149.42	861.21
1969	285.99	137.45	735.27	1969	298.71	138.06	784.21
1968	269.59	128.53	694.31	1968	281.36	128.95	739.04
1967	254.90	120.85	652.20	1967	264.84	120.93	688.26
1966	244.39	115.65	620.21	1966	255.02	116.19	655.03
1965	233.62	111.11	584.66	1965	243.97	111.32	617.08
1964	226.80	108.44	553.36	1964	236.15	108.28	580.31
1963	220.38	105.17	528.38	1963	228.80	105.03	553.59

Based on revenue data in Tables 56 and 57, and average number of customers per period. p Preliminary. r Revised.

TABLE 65A

AVERAGE ANNUAL REVENUE PER CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE—1983p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,347.81**	**$602.65**	**$3,638.84**
Maine	983.13	462.56	2,261.04
New Hampshire	1,177.39	611.58	2,120.11
Vermont	1,010.89	509.33	1,996.17
Massachusetts	1,231.24	528.10	4,785.78
Rhode Island	1,120.59	501.25	4,147.76
Connecticut	1,458.33	658.14	6,170.67
New England	**1,237.79**	**557.78**	**4,326.11**
New York	1,481.15	570.10	5,793.61
New Jersey	1,515.20	658.84	4,912.59
Pennsylvania	1,288.73	559.37	3,237.93
Middle Atlantic	**1,423.69**	**584.55**	**4,786.87**
Ohio	1,466.84	623.23	4,149.11
Indiana	1,370.31	609.88	2,707.53
Illinois	1,485.91	639.11	5,160.48
Michigan	1,114.07	436.63	3,290.37
Wisconsin	1,125.80	530.14	3,200.08
East North Central	**1,340.43**	**573.44**	**3,906.76**
Minnesota	1,081.36	517.67	2,003.90
Iowa	1,180.10	629.24	2,502.28
Missouri	1,113.12	593.63	3,452.28
North Dakota	1,165.71	649.78	2,109.53
South Dakota	954.11	618.02	2,186.96
Nebraska	949.81	556.70	1,631.03
Kansas	1,334.86	647.73	3,533.43
West North Central	**1,125.60**	**588.73**	**2,613.38**
Delaware	1,683.07	727.32	5,273.07
Maryland	1,364.27	638.78	4,058.05
District of Columbia	2,477.48	429.75	10,732.48
Virginia	1,434.50	732.45	4,186.53
West Virginia	1,127.70	503.16	2,506.07
North Carolina	1,383.18	711.99	2,849.56
South Carolina	1,553.39	723.52	2,945.42
Georgia	1,287.65	613.51	3,779.68
Florida	1,302.68	738.53	3,886.59
South Atlantic	**1,368.96**	**703.22**	**3,696.15**
Kentucky	1,543.11	596.32	2,450.71
Tennessee	1,596.12	667.27	1,750.77
Alabama	1,578.69	716.23	2,743.76
Mississippi	1,298.60	652.33	2,797.20
East South Central	**1,528.34**	**660.65**	**2,384.43**
Arkansas	1,231.29	661.16	2,609.33
Louisiana	1,711.56	733.78	3,654.92
Oklahoma	1,328.95	663.51	3,143.01
Texas	1,840.03	796.35	3,991.59
West South Central	**1,689.17**	**754.29**	**3,708.38**
Montana	858.53	397.90	1,737.31
Idaho	1,092.20	500.99	2,297.68
Wyoming	1,477.38	426.79	2,034.29
Colorado	923.52	424.45	3,174.73
New Mexico	1,194.14	460.27	3,147.18
Arizona	1,545.09	759.03	4,945.90
Utah	1,288.73	514.95	4,285.42
Nevada	1,444.32	652.24	3,539.86
Mountain	**1,210.05**	**538.40**	**3,353.47**
Washington	1,026.02	478.92	2,158.02
Oregon	1,067.88	487.48	2,557.21
California	1,110.48	412.30	3,450.06
Pacific	**1,094.53**	**428.84**	**3,199.68**
Alaska	1,540.90	797.44	5,046.22
Hawaii	2,075.51	749.05	4,090.98
Alaska & Hawaii	**1,881.53**	**766.46**	**4,423.65**

p Preliminary.

Based on revenue data in Table 59 and average number of customers data in Table 52.

TABLE 65B

AVERAGE ANNUAL REVENUE PER CUSTOMER TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE—1982r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,285.29**	**$563.09**	**$3,452.36**
Maine	933.05	447.04	1,953.59
New Hampshire	1,108.81	575.61	1,954.91
Vermont	967.45	513.14	1,829.05
Massachusetts	1,168.41	501.35	4,584.29
Rhode Island	1,034.20	460.52	3,819.85
Connecticut	1,380.69	628.69	5,533.75
New England	**1,171.76**	**531.21**	**4,026.44**
New York	1,372.37	523.44	5,248.29
New Jersey	1,467.10	609.72	4,779.76
Pennsylvania	1,277.85	536.30	3,135.28
Middle Atlantic	**1,360.05**	**545.32**	**4,473.18**
Ohio	1,354.07	565.64	3,845.01
Indiana	1,246.74	551.57	2,469.05
Illinois	1,324.52	522.37	4,813.11
Michigan	1,036.13	394.27	3,091.72
Wisconsin	1,047.91	498.46	2,967.88
East North Central	**1,225.09**	**506.27**	**3,631.92**
Minnesota	1,036.89	496.76	1,841.33
Iowa	1,078.50	564.41	2,260.79
Missouri	995.33	510.56	3,089.71
North Dakota	1,076.27	622.93	1,627.90
South Dakota	857.81	564.55	1,792.12
Nebraska	891.51	469.08	1,859.38
Kansas	1,166.38	535.84	2,993.05
West North Central	**1,030.80**	**522.55**	**2,411.49**
Delaware	1,597.87	693.67	5,206.28
Maryland	1,331.70	601.12	3,887.87
District of Columbia	2,303.15	380.21	10,019.37
Virginia	1,340.11	673.37	3,906.80
West Virginia	1,114.60	484.42	2,436.08
North Carolina	1,295.06	664.74	2,668.24
South Carolina	1,450.01	657.06	2,743.72
Georgia	1,251.11	591.63	3,569.60
Florida	1,261.44	733.69	3,985.02
South Atlantic	**1,308.74**	**657.60**	**3,586.91**
Kentucky	1,431.69	530.78	2,135.74
Tennessee	1,590.55	660.42	1,395.90
Alabama	1,528.86	681.66	2,540.53
Mississippi	1,270.68	641.17	2,460.31
East South Central	**1,481.46**	**631.20**	**2.084.57**
Arkansas	1,106.39	590.44	2,221.42
Louisiana	1,672.62	705.97	3,435.30
Oklahoma	1,221.78	606.89	2,739.43
Texas	1,813.82	793.52	3,835.40
West South Central	**1,637.54**	**732.30**	**3,485.53**
Montana	778.00	360.77	1,373.71
Idaho	1,021.17	479.60	2,077.30
Wyoming	1,225.56	387.24	1,541.85
Colorado	923.33	412.83	2,914.78
New Mexico	1,203.95	448.01	2,922.76
Arizona	1,361.68	615.18	4,393.33
Utah	1,170.54	477.81	3,627.77
Nevada	1,406.38	621.49	3,452.51
Mountain	**1,132.53**	**489.50**	**3,023.08**
Washington	891.89	425.50	2,007.31
Oregon	1,001.57	468.54	2,432.40
California	1,160.19	427.46	3,566.49
Pacific	**1,107.40**	**430.96**	**3,265.59**
Alaska	1,378.48	714.60	3,299.14
Hawaii	2,320.39	825.17	4,432.48
Alaska & Hawaii	**1,996.93**	**787.42**	**4,063.43**

Based on revenue data in Table 59 and average number of customers data in Table 52.
r Revised.

TABLE 66A

AVERAGE ANNUAL REVENUE PER CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—1983p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,400.96**	**$601.14**	**$4,026.35**
Maine	996.27	463.02	2,339.89
New Hampshire	1,246.26	625.99	2,232.88
Vermont	1,051.32	510.09	2,145.86
Massachusetts	1,239.29	523.65	5,017.62
Rhode Island	1,124.12	501.37	4,164.64
Connecticut	1,448.12	662.92	6,329.65
New England	**1,250.12**	**559.51**	**4,513.01**
New York	1,385.90	576.90	5,902.62
New Jersey	1,522.38	659.29	4,956.25
Pennsylvania	1,314.46	556.96	3,285.06
Middle Atlantic	**1,390.78**	**587.31**	**4,866.51**
Ohio	1,530.43	625.32	4,363.09
Indiana	1,510.01	600.18	2,849.23
Illinois	1,510.76	630.81	5,164.82
Michigan	1,140.19	439.39	3,311.49
Wisconsin	1,155.55	517.34	3,407.59
East North Central	**1,391.47**	**569.52**	**4,041.25**
Minnesota	1,201.80	435.81	1,827.07
Iowa	1,252.41	595.10	2,617.01
Missouri	1,222.21	592.03	3,860.31
North Dakota	1,034.60	559.44	1,747.09
South Dakota	1,040.62	563.56	2,489.36
Nebraska	—	—	—
Kansas	1,349.70	649.65	4,074.50
West North Central	**1,229.11**	**562.21**	**2,997.10**
Delaware	1,795.37	756.96	5,541.82
Maryland	1,384.30	631.42	4,058.72
District of Columbia	2,477.48	429.75	10,732.48
Virginia	1,517.92	743.86	4,509.03
West Virginia	1,133.26	504.08	2,518.65
North Carolina	1,555.19	750.39	3,051.96
South Carolina	1,783.02	750.02	3,107.58
Georgia	1,629.59	615.63	4,705.93
Florida	1,319.96	789.17	4,221.33
South Atlantic	**1,470.27**	**707.53**	**4,025.24**
Kentucky	1,307.78	566.46	2,765.62
Tennessee	1,533.34	772.42	3,528.47
Alabama	1,657.75	713.40	3,340.79
Mississippi	1,566.01	679.59	3,495.17
East South Central	**1,509.00**	**653.72**	**3,175.70**
Arkansas	1,373.53	653.35	2,919.84
Louisiana	1,913.52	718.56	4,027.87
Oklahoma	1,312.51	629.59	3,445.70
Texas	2,069.83	842.25	4,531.22
West South Central	**1,882.74**	**775.98**	**4,186.40**
Montana	775.26	357.65	1,785.46
Idaho	1,151.90	514.36	2,331.54
Wyoming	1,360.08	358.72	1,874.20
Colorado	943.77	398.71	3,928.83
New Mexico	1,264.79	460.93	3,872.05
Arizona	1,571.72	724.70	4,851.14
Utah	1,383.81	563.63	4,733.98
Nevada	1,466.34	667.47	3,738.53
Mountain	**1,230.59**	**522.58**	**3,637.25**
Washington	859.02	530.43	2,622.88
Oregon	1,031.38	475.85	2,702.34
California	1,166.91	432.21	3,676.18
Pacific	**1,126.39**	**445.31**	**3,496.61**
Alaska	1,707.42	827.15	4,636.36
Hawaii	2,075.51	749.05	4,090.98
Alaska & Hawaii	**2,061.01**	**751.99**	**4,113.28**

p Preliminary.
Based on revenue data in Table 60 and average number of customer data in Table 53.

TABLE 66B

AVERAGE ANNUAL REVENUE PER CUSTOMER INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—1982r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,338.79**	**$562.54**	**$3,867.11**
Maine	949.73	449.12	2,024.91
New Hampshire	1,175.65	587.92	2,078.88
Vermont	1,031.47	526.69	1,945.07
Massachusetts	1,171.14	495.45	4,799.46
Rhode Island	1,037.39	460.68	3,835.21
Connecticut	1,392.37	640.47	5,715.47
New England	**1,188.22**	**534.38**	**4,210.39**
New York	1,292.43	529.79	5,346.13
New Jersey	1,474.50	610.37	4,826.55
Pennsylvania	1,306.37	536.00	3,194.07
Middle Atlantic	**1,334.77**	**548.44**	**4,550.85**
Ohio	1,413.06	564.95	4,074.83
Indiana	1,371.36	541.29	2,690.07
Illinois	1,341.65	510.97	4,843.54
Michigan	1,055.79	392.93	3,133.96
Wisconsin	1,085.06	486.07	3,180.85
East North Central	**1,269.86**	**498.87**	**3,791.16**
Minnesota	1,151.93	421.07	1,785.19
Iowa	1,137.59	522.73	2,405.33
Missouri	1,087.30	499.72	3,518.54
North Dakota	992.74	548.95	1,702.94
South Dakota	920.18	509.04	2,214.35
Nebraska	—	—	—
Kansas	1,157.88	530.78	3,560.78
West North Central	**1,113.80**	**492.98**	**2,743.80**
Delaware	1,757.31	713.97	5,439.27
Maryland	1,357.36	596.34	4,019.81
District of Columbia	2,303.15	380.21	10,019.37
Virginia	1,423.04	686.79	4,319.47
West Virginia	1,120.23	485.41	2,449.23
North Carolina	1,456.83	678.24	2,911.75
South Carolina	1,657.88	694.01	2,942.60
Georgia	1,591.42	588.10	4,667.35
Florida	1,281.26	740.68	4,233.94
South Atlantic	**1,410.29**	**633.12**	**3,938.51**
Kentucky	1,154.44	498.30	2,558.91
Tennessee	1,405.56	725.61	3,402.84
Alabama	1,563.45	661.21	3,170.13
Mississippi	1,538.54	672.78	3,454.98
East South Central	**1,405.63**	**604.50**	**3,021.75**
Arkansas	1,247.57	594.33	2,630.48
Louisiana	1,878.21	695.09	3,863.83
Oklahoma	1,219.89	583.33	3,244.84
Texas	2,052.46	847.64	4,474.19
West South Central	**1,840.01**	**762.67**	**4,068.67**
Montana	674.92	320.44	1,519.86
Idaho	1,084.49	495.88	2,116.43
Wyoming	1,051.45	317.38	1,596.93
Colorado	945.34	387.44	3,783.91
New Mexico	1,290.07	468.27	3,987.44
Arizona	1,476.76	621.73	4,682.57
Utah	1,255.01	520.20	4,181.72
Nevada	1,412.25	635.19	3,619.61
Mountain	**1,165.43**	**485.10**	**3,461.21**
Washington	760.78	454.40	2,475.60
Oregon	981.64	461.89	2,604.12
California	1,231.06	456.87	3,830.38
Pacific	**1,165.23**	**457.15**	**3,605.27**
Alaska	1,390.07	702.10	3,665.98
Hawaii	2,320.39	825.17	4,432.48
Alaska & Hawaii	**2,285.06**	**820.72**	**4,402.32**

Based on revenue data in Table 60 and average number of customer data in Table 53.
r Revised.

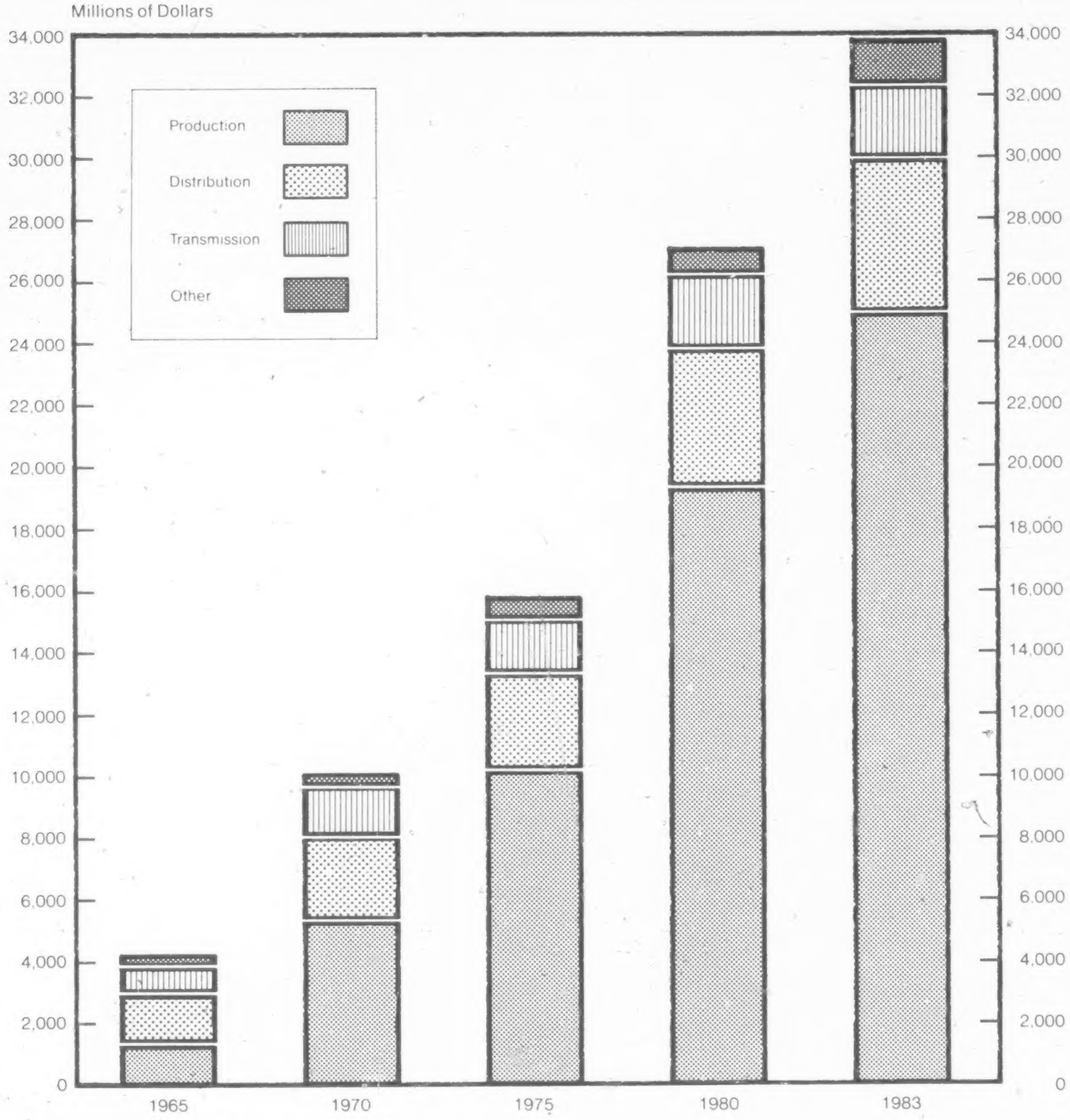
FINANCIAL

SECTION IX

CHART IX-A

CONSTRUCTION EXPENDITURES

INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 69, page 78

TABLE 69

CONSTRUCTION EXPENDITURES INVESTOR-OWNED ELECTRIC UTILITIES

BY TYPE OF ELECTRIC UTILITY PLANT
MILLIONS OF DOLLARS

	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Production											
Steam	$ 5,860	$ 7,828	$ 7,221	$ 7,498	$ 7,572	$ 6,664	$ 6,529	$ 5,689	$ 5,062	$ 5,323	$ 4,923
Nuclear	18,208	16,461	12,785	11,045	9,855	8,813	7,273	5,815	4,545	3,969	3,270
Other	868	1,050	906	695	854	655	614	460	487	802	662
Total	**24,935**	**25,339**	**20,912**	**19,238**	**18,281**	**16,132**	**14,416**	**11,964**	**10,094**	**10,094**	**8,855**
Transmission	2,371	2,203	2,270	2,353	2,090	1,738	1,687	1,832	1,771	2,145	1,878
Distribution	5,021	4,827	4,606	4,483	4,334	3,875	3,390	2,974	3,075	3,583	3,568
General/Miscellaneous*	1,489	1,233	1,336	937	776	1,192	788	590	710	880	758
Subtotal	**33,816**	**33,602**	**29,124**	**27,011**	**25,481**	**22,937**	**20,281**	**17,360**	**15,650**	**16,702**	**15,059**
Nuclear Fuel	1,749	1,748	1,566	1,324	1,338	1,093	1,016	798	541	490	232
GRAND TOTAL	**$35,565**	**$35,350**	**$30,690**	**$28,335**	**$26,819**	**$24,030**	**$21,297**	**$18,158**	**$16,191**	**$17,192**	**$15,291**
AFUDC included in TOTAL	$ 7,816	$ 6,612	$ 5,358	$ 4,365	$ 3,593	$ 2,717	$ 2,267	$ 1,854	$ 1,676	$ 1,576	$ 1,277

	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963
Production										
Steam	$ 4,306	$ 3,507	$ 2,790	$ 2,227	$ 2,076	$ 1,735	$ 1,294	$ 987	$ N/A	$ N/A
Nuclear	2,920	2,410	1,641	1,120	679	433	126	56	N/A	N/A
Other	691	620	818	550	347	311	220	185	N/A	N/A
Total	**7,917**	**6,537**	**5,249**	**3,897**	**3,102**	**2,479**	**1,640**	**1,228**	**1,115**	**1,083**
Transmission	1,749	1,818	1,625	1,555	1,378	1,329	1,161	923	754	609
Distribution	3,192	2,869	2,751	2,511	2,299	2,102	1,851	1,666	1,502	1,339
General/Miscellaneous*	605	633	422	394	339	294	289	238	187	209
Subtotal	**13,463**	**11,857**	**10,047**	**8,357**	**7,118**	**6,204**	**4,941**	**4,055**	**3,558**	**3,240**
Nuclear Fuel	265	361	217	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GRAND TOTAL	**$13,728**	**$12,218**	**$10,264**	**$ 8,357**	**$ 7,118**	**$ 6,204**	**$ 4,941**	**$ 4,055**	**$ 3,558**	**$ 3,240**
AFUDC included in TOTAL	$ 1,078	$ 809	$ 583	$ 398	$ 270	$ 185	$ 126	$ 92	$ 84	$ 77

This table has been restructured based on data submitted to the Institute. Data, compiled on a 50 state basis, now includes nuclear fuel and reflects the amount of AFUDC in the total. Construction expenditures are, in general, the gross amounts spent for construction of all kinds, including the acquisition of real estate and all necessary equipment. The figures include money spent for replacements, additions, and betterments (but not for maintenance of existing plant) as well as for new construction.

**Includes intangible plant.*

N/A Not available.

TABLE 70

COMBINED BALANCE SHEETS—YEAR ENDED DECEMBER 31ST INVESTOR-OWNED ELECTRIC UTILITIES

INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1983	1982	1981	1980	1979	1978
ASSETS						
Utility Plant:						
Electric	$343,600	$319,723	$290,723	$265,233	$241,401	$216,795
Accumulated Provision for Depreciation and Amortization	70,527	64,552	58,783	53,324	49,161	44,211
Net Electric Utility Plant	**273,073**	**255,171**	**231,940**	**211,909**	**192,240**	**172,584**
Nuclear Fuel	9,421	8,056	7,449	6,704	5,788	4,749
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	3,755	3,591	3,324	2,754	2,029	1,566
Net Nuclear Fuel	**5,665**	**4,465**	**4,125**	**3,950**	**3,759**	**3,183**
Net Total Electric Utility Plant	**278,738**	**259,636**	**236,065**	**215,859**	**195,999**	**175,767**
Other	20,058	17,084	16,241	14,673	13,775	12,700
Accumulated Provision for Depreciation and Amortization	6,546	5,462	4,959	4,502	4,130	3,743
Net Other Utility Plant	**13,513**	**11,622**	**11,282**	**10,171**	**9,645**	**8,957**
Total Utility Plant	373,078	344,862	314,413	286,610	260,964	234,244
Accumulated Provision for Depreciation and Amortization	80,828	73,605	67,066	60,580	55,320	49,520
Net Total Utility Plant	**292,250**	**271,258**	**247,347**	**226,030**	**205,644**	**184,724**
Other Property and Investment	8,367	6,656	5,737	4,593	4,006	3,262
Total Current and Accrued Assets	33,196	31,799	28,100	25,928	21,644	18,419
Total Deferred Debits*	12,001	7,486	6,532	5,064	4,465	3,274
Total Assets*	**$345,814**	**$317,198**	**$287,716**	**$261,615**	**$235,759**	**$209,679**
LIABILITIES						
Capitalization:						
Common Capital Stock	$ 44,742	$ 40,491	$ 35,406	$ 32,616	$ 29,179	$ 26,625
Other Paid-In Capital Excluding Retained Earnings**	31,580	27,305	23,838	20,509	18,538	16,458
Retained Earnings*	35,369	30,984	27,511	24,865	23,035	21,250
Total Common Capital Stock Equity*	**111,691**	**98,779**	**86,755**	**77,990**	**70,752**	**64,333**
Preferred Stock	29,479	28,616	26,817	25,755	23,881	21,565
Long-Term Debt:						
Mortgage Bonds	104,244	98,998	93,783	88,579	82,014	76,534
Other Long-Term Debt	28,034	24,694	20,780	16,978	14,244	10,954
Total Long-Term Debt	**132,278**	**123,692**	**114,563**	**105,557**	**96,258**	**87,488**
Total Capitalization*	**273,448**	**251,088**	**228,136**	**209,302**	**190,891**	**173,386**
Total Current and Accrued Liabilities	33,898	33,356	32,395	29,564	25,990	20,511
Contribution in Aid of Construction	135	127	115	91	82	70
Deferred Income Taxes	21,075	18,310	15,931	13,341	10,449	8,838
Deferred Investment Tax Credits	12,059	10,408	8,271	7,133	6,343	5,253
Other Deferred Credits and Operating Reserves†	5,199	3,909	2,869	2,184	2,004	1,621
Total Liabilities*	**$345,814**	**$317,198**	**$287,716**	**$261,615**	**$235,759**	**$209,679**

Note: Total may not equal sum of components due to independent rounding.

**Figures revised (1978-1979) due to reclassification of Capital Stock Expense from "Total Deferred Debits" to "Retained Earnings."*

***Includes Premium on Common and Preferred Stock.*

†"Total Deferred Credits and Operating Reserves" has been retitled "Other Deferred Credits and Operating Reserves." Deferred Investment Tax Credits, previously included in "Total Deferred Credits and Operating Reserves," are now shown as a separate item.

TABLE 71

COMBINED INCOME STATEMENTS—YEAR ENDED DECEMBER 31ST INVESTOR-OWNED ELECTRIC UTILITIES

INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1983	1982	1981	1980	1979	1978
			ELECTRIC DEPARTMENT ONLY			
Operating Revenues	**$109,446**	**$101,693**	**$ 94,270**	**$80,636**	**$68,152**	**$61,299**
Operating Expenses:						
Operation	55,315	54,118	52,563	44,841	36,592	31,811
Maintenance	7,577	7,124	6,279	5,616	4,788	4,153
Depreciation and Depletion	8,016	7,301	6,690	6,079	5,628	5,120
Amortization Charged to Operation	117	103	103	40	33	31
Property Losses Charged to Operation	237	184	100	74	45	21
Taxes Other Than Income Taxes	7,790	7,151	6,565	5,866	5,300	4,985
Federal Income Taxes	2,845	2,853	1,704	1,242	660	921
State Income Taxes	566	715	379	307	244	271
Deferred Income Taxes:						
Due to Liberalized Depreciation	2,685	1,952	1,641	1,409	1,331	1,283
Due to Accelerated Amortization	61	21	15	29	14	30
Other Deferred Income Taxes	1,748	(386)	552	561	480	268
Investment Tax Credit Adjustments*	1,828	2,298	1,333	854	1,098	1,282
Total Operating Expenses	**88,788**	**83,435**	**77,922**	**66,918**	**56,213**	**50,176**
Operating Income	$ 20,658	$ 18,258	$ 16,347	$13,718	$11,939	$11,123
			ALL DEPARTMENTS			
Operating Revenues	**$129,785**	**$121,062**	**$111,506**	**$95,326**	**$80,021**	**$71,042**
Operating Expenses:						
Operation	71,947	69,982	66,553	56,720	46,050	39,354
Maintenance	8,012	7,556	6,728	6,003	5,137	4,451
Depreciation and Depletion	8,609	7,856	7,221	6,552	6,043	5,490
Amortization Charged to Operation	187	122	120	55	34	34
Property Losses Charged to Operation	280	186	101	76	46	21
Taxes Other Than Income Taxes	8,746	8,044	7,451	6,580	5,897	5,542
Federal Income Taxes	2,973	3,035	1,854	1,328	821	1,086
State Income Taxes	621	755	405	331	267	290
Deferred Income Taxes:						
Due to Liberalized Depreciation	2,773	2,021	1,716	1,480	1,383	1,310
Due to Accelerated Amortization	121	26	20	30	14	32
Other Deferred Income Taxes	1,854	(269)	573	647	478	287
Investment Tax Credit Adjustments*	1,911	2,377	1,386	897	1,134	1,315
Total Operating Expenses	**108,036**	**101,691**	**94,127**	**80,699**	**67,304**	**59,212**
Operating Income	21,749	19,371	17,378	14,627	12,717	11,830
Other Income (Non-Operating) Net	1,736	1,831	1,733	1,232	918	715
Allowance for Other Funds Used During Construction	4,980	3,889	2,939	2,533	2,189	1,684
Income Before Interest Charges (Gross Income)	**28,466**	**25,091**	**22,050**	**18,392**	**15,824**	**14,229**
Interest Charges:						
Interest on Long-Term Debt	12,430	11,483	10,213	8,488	7,198	6,343
Interest on Short-Term Debt	536	813	1,261	1,142	597	314
Amortization of Debt Discount Expense and Premium	106	72	59	44	35	33
Other Interest Expense	587	615	438	285	218	154
Allowance for Borrowed Funds Used During Construction—Credit	(3,009)	(2,917)	(2,550)	(2,094)	(1,538)	(1,223)
Total Interest Charges	10,649	10,066	9,421	7,865	6,510	5,621
Income Before Extraordinary Items	**17,816**	**15,025**	**12,628**	**10,527**	**9,314**	**8,608**
Extraordinary Items	(228)	121	28	2	(12)	(34)
Net Income	**17,589**	**15,146**	**12,656**	**10,529**	**9,302**	**8,574**
Preferred Dividend Charges	2,715	2,502	2,251	2,042	1,750	1,592
Available for Common Stock	14,874	12,643	10,405	8,487	7,552	6,982
Common Dividends	10,306	8,968	7,587	6,429	5,587	4,956
Net Income After Dividends	**$ 4,568**	**$ 3,676**	**$ 2,818**	**$ 2,058**	**$ 1,965**	**$ 2,026**

Note: Total may not equal sum of components due to independent rounding.

**Investment Tax Credit Adjustments, previously included in "Charges in Lieu of Taxes," are now shown as a separate item.*

( ) Denotes credit or negative value.

TABLE 72

DETAIL OF ELECTRIC OPERATION & MAINTENANCE EXPENSES INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1983	1982	1981	1980	1979	1978
Production	$48,408	$48,010	$47,281	$40,396	$32,575	$28,137
Transmission and Distribution	5,143	4,721	4,172	3,761	3,360	3,006
Customer Accounts	2,224	2,109	1,858	1,592	1,362	1,312
Customer Service and Information	643	512	396	302	279	*
Sales	37	34	31	33	45	179
Administrative and General	6,437	5,855	5,104	4,373	3,759	3,330
Total Operation & Maintenance Expenses	**$62,892**	**$61,242**	**$58,842**	**$50,457**	**$41,380**	**$35,964**
Cost of Fuel**	$36,174	$36,627	$37,165	$31,622	$26,281	$22,225

Note: Total may not equal sum of components due to independent rounding.
**Data for this item not reported separately prior to 1979.*
***Included in "Total Operation & Maintenance Expenses."*

TABLE 73

DETAIL OF TAXES—ELECTRIC DEPARTMENT ONLY INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1983		1982		1981	
	Amount	% of Oper Revenue	Amount	% of Oper Revenue	Amount	% of Oper Revenue
Federal Taxes						
Income	$ 2,845	2.6%	$ 2,853	2.8%	$ 1,702	1.8%
Deferred Taxes on Income*	2,546	2.3	1,842	1.8	1,541	1.6
Other Deferred Income Taxes**	3,423	3.2	2,012	2.0	1,871	2.0
Miscellaneous Taxes	680	0.6	617	0.6	544	0.6
Total Federal Taxes Charged to Income	9,495	8.7	7,324	7.2	5,658	6.0
State and Local Taxes	8,028	7.3	7,280	7.2	6,537	6.9
Total Taxes Charged to Income	**$17,523**	**16.0%**	**$14,604**	**14.4%**	**$12,195**	**12.9%**

	1980		1979		1978	
	Amount	% of Oper Revenue	Amount	% of Oper Revenue	Amount	% of Oper Revenue
Federal Taxes						
Income	$ 1,242	1.5%	$ 660	1.0%	$ 921	1.5%
Deferred Taxes on Income*	1,347	1.7	1,255	1.8	1,228	2.0
Other Deferred Income Taxes**	1,392	1.7	1,574	2.3	1,535	2.5
Miscellaneous Taxes	432	0.5	379	0.6	322	0.5
Total Federal Taxes Charged to Income	4,413	5.4	3,868	5.7	4,006	6.5
State and Local Taxes	5,855	7.3	5,259	7.7	5,034	8.2
Total Taxes Charged to Income	**$10,268**	**12.7%**	**$ 9,127**	**13.4%**	**$ 9,040**	**14.7%**

Note: Total may not equal sum of components due to independent rounding.
**Due to liberalized depreciation and accelerated amortization.*
***Includes investment tax credits reported as charges to income for the current year.*

TABLE 74

CAPITALIZATION AND CAPITALIZATION RATIOS INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1983	1982	1981	1980	1979	1978
CAPITALIZATION OUTSTANDING						
Mortgage Bonds	$104,244	$ 98,998	$ 93,783	$ 88,579	$ 82,014	$ 76,534
Other Long-Term Debt	28,034	24,694	20,780	16,978	14,244	10,954
Total Long-Term Debt	**132,278**	**123,692**	**114,563**	**105,557**	**96,258**	**87,488**
Preferred Stock	29,479	28,616	26,817	25,755	23,881	21,565
Common Capital Stock	44,742	40,491	35,406	32,616	29,179	26,625
Other Paid-In Capital Excluding Retained Earnings*	31,580	27,305	23,838	20,509	18,538	16,458
Retained Earnings**	35,369	30,984	27,511	24,865	23,035	21,250
Total Capitalization**	**$273,448**	**$251,088**	**$228,135**	**$209,302**	**$190,891**	**$173,386**
CAPITALIZATION RATIOS**						
Mortgage Bonds	38.1%	39.5%	41.1%	42.3%	42.9%	44.2%
Other Long-Term Debt	10.3	9.8	9.1	8.1	7.5	6.3
Total Long-Term Debt	**48.4**	**49.3**	**50.2**	**50.4**	**50.4**	**50.5**
Preferred Stock	10.8	11.4	11.8	12.3	12.5	12.4
Common Capital Stock Equity	40.8	39.3	38.0	37.3	37.1	37.1
Total Capitalization	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Note: Total may not equal sum of components due to independent rounding.

**Includes Premium on Common and Preferred Stock.*

***Figures revised (1978 – 1979) due to reclassification of Capital Stock Expense. Refer to Table 70 for specific details.*

TABLE 75

PUBLIC UTILITY LONG-TERM FINANCING INVESTOR-OWNED UTILITIES

BY YEAR, TYPE OF ISSUE, PURPOSE AND TYPE OF UTILITY 1978-1983—THOUSANDS OF DOLLARS

	1983	1982	1981	1980	1979	1978
ELECTRIC UTILITIES						
LONG-TERM DEBT						
New Capital	$ 6,831,791	$ 8,438,375	$ 8,576,941	$ 7,847,006	$ 7,223,256	$ 6,867,909
Refunding	751,064	786,195	351,954	461,294	638,804	334,971
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**7,582,855**	**9,224,570**	**8,928,895**	**8,308,300**	**7,862,060**	**7,202,880**
PREFERRED STOCK						
New Capital	1,902,750	2,096,830	1,173,750	2,003,000	2,288,848	1,671,500
Refunding	—	40,000	—	7,500	75,300	107,405
Divestment	—	—	—	—	—	—
Total Preferred	**1,902,750**	**2,136,830**	**1,173,750**	**2,010,500**	**2,364,148**	**1,778,905**
COMMON STOCK						
New Capital	3,082,855	5,003,687	4,089,481	4,063,303	3,356,088	3,316,523
Refunding	—	21,103	—	—	—	61,600
Divestment	—	—	—	—	—	—
Total Common	**3,082,855**	**5,024,790**	**4,089,481**	**4,063,303**	**3,356,088**	**3,378,123**
TOTAL CAPITAL						
New Capital	11,817,396	15,538,892	13,840,172	13,913,309	12,868,192	11,855,932
Refunding	751,064	847,298	351,954	468,794	714,104	503,976
Divestment	—	—	—	—	—	—
Total Capital	**$12,568,460**	**$16,386,190**	**$14,192,126**	**$14,382,103**	**$13,582,296**	**$12,359,908**
GAS UTILITIES*						
LONG-TERM DEBT						
New Capital	$ 1,210,020	$ 1,897,096	$ 1,669,000	$ 924,500	$ 808,211	$ 543,650
Refunding	110,480	17,904	116,000	10,000	203,789	43,350
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**1,320,500**	**1,915,000**	**1,785,000**	**934,500**	**1,012,000**	**587,000**
PREFERRED STOCK						
New Capital	240,000	357,000	130,000	276,000	215,000	218,550
Refunding	—	—	—	—	—	—
Divestment	—	—	—	—	—	—
Total Preferred	**240,000**	**357,000**	**130,000**	**276,000**	**215,000**	**218,550**
COMMON STOCK						
New Capital	364,739	40,025	192,463	351,000	193,505	145,594
Refunding	32,975	—	—	—		—
Divestment	—	—	—	—	235,227	—
Total Common	**397,714**	**40,025**	**192,463**	**351,000**	**428,732**	**145,594**
TOTAL CAPITAL						
New Capital	1,814,759	2,294,121	1,991,463	1,551,500	1,216,716	907,794
Refunding	143,455	17,904	116,000	10,000	203,789	43,350
Divestment	—	—	—	—	235,227	—
Total Capital	**$ 1,958,214**	**$ 2,312,025**	**$ 2,107,463**	**$ 1,561,500**	**$ 1,655,732**	**$ 951,144**
ALL OTHER UTILITIES†						
LONG-TERM DEBT						
New Capital	$ 1,131,055	$ 495,000	$ 3,578,000	$ 5,775,000	$ 3,841,750	$ 2,829,500
Refunding	383,445	—	168,000	240,000	110,000	275,000
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**1,514,500**	**495,000**	**3,746,000**	**6,015,000**	**3,951,750**	**3,104,500**
PREFERRED STOCK						
New Capital	—	40,000	—	83,000	130,000	164,650
Refunding	—	—	—	—	—	20,000
Divestment	—	—	—	—	—	—
Total Preferred	**—**	**40,000**	**—**	**83,000**	**130,000**	**184,650**
COMMON STOCK						
New Capital	1,093,504	1,558,876	984,053	40,916	415,659	35,266
Refunding	—	—	—	—	76,556	2,550
Divestment	—	—	—	—	—	—
Total Common	**1,093,504**	**1,558,876**	**984,053**	**40,916**	**492,215**	**37,816**
TOTAL CAPITAL						
New Capital	2,224,559	2,093,876	4,562,053	5,898,916	4,387,409	3,029,416
Refunding	383,445	—	168,000	240,000	186,556	297,550
Divestment	—	—	—	—	—	—
Total Capital	**$ 2,608,004**	**$ 2,093,876**	**$ 4,730,053**	**$ 6,138,916**	**$ 4,573,965**	**$ 3,326,966**
TOTAL UTILITY FINANCING						
LONG-TERM DEBT						
New Capital	$ 9,172,866	$10,830,471	$13,823,941	$14,546,506	$11,873,217	$10,241,059
Refunding	1,244,989	804,099	635,954	711,294	952,593	653,321
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**10,417,855**	**11,634,570**	**14,459,895**	**15,257,800**	**12,825,810**	**10,894,380**
PREFERRED STOCK						
New Capital	2,142,750	2,493,830	1,303,750	2,362,000	2,633,848	2,054,700
Refunding	—	40,000	—	7,500	75,300	127,405
Divestment	—	—	—	—	—	—
Total Preferred	**2,142,750**	**2,533,830**	**1,303,750**	**2,369,500**	**2,709,148**	**2,182,105**
COMMON STOCK						
New Capital	4,541,098	6,602,588	5,265,997	4,455,219	3,965,252	3,497,383
Refunding	32,975	21,103	—	—	76,556	64,150
Divestment	—	—	—	—	235,227	—
Total Common	**4,574,073**	**6,623,691**	**5,265,997**	**4,455,219**	**4,277,035**	**3,561,533**
TOTAL CAPITAL						
New Capital	15,856,714	19,926,869	20,393,688	21,363,725	18,472,317	15,793,142
Refunding	1,277,964	865,202	635,954	718,794	1,104,449	844,876
Divestment	—	—	—	—	235,227	—
Total Capital	**$17,134,678**	**$20,792,091**	**$21,029,642**	**$22,082,519**	**$19,811,993**	**$16,638,018**

Classification as to type of utility is based upon predominant source of revenue. **Includes gas pipe line companies.*

† "Other Utilities" are water, transit, telephone and telegraph. Does not include railroads.

Note: Includes negotiated sales of pollution control bonds: 1983, $1,652 million; 1982, $1,727 million; 1981, $1,767 million; 1980, $982.4 million; 1979, $1,297.8 million; and 1978, $966.6 million.

Source: Ebasco Business Consulting Co.

TABLE 76

WEIGHTED AVERAGE OF YIELDS ON NEWLY ISSUED DOMESTIC BONDS AND PREFERRED STOCKS

1963-1983

Year	Utility Bonds				Industrial Bonds	Preferred Stocks
	Electric and Gas	Telephone	Water Works	All Utilities		All Utilities
1983	**12.70%**	**11.72%**	....	**12.53%**	**11.50%**	**12.06%**
1982	14.93r	14.23r	....	14.56	13.65	14.42r
1981	16.31	15.45	....	16.30	15.16	15.11
1980	13.46	12.59	....	13.09	11.66	12.28
1979	10.85	10.29	....	10.64	9.49	9.76
1978	9.30	9.07	....	9.22	8.98	9.03
1977	8.43	8.21	....	8.38	8.15	8.43
1976	8.92	8.41	....	8.80	8.61	9.12
1975	9.97	9.27	....	9.76	9.12	10.63
1974	9.59	9.22	....	9.21	8.87	9.95
1973	7.91	7.87	....	7.88	7.86	7.50
1972	7.50	7.36	....	7.46	7.51	7.53
1971	7.72	7.58	....	7.71	7.80	7.74
1970	8.79	8.75	....	8.85	8.86	9.01
1969	7.98	8.00	....	7.99	7.84	7.75
1968	6.80	6.55	7.17%	6.72	6.64	6.44
1967	6.07	5.77	6.01	6.01	5.79	6.03
1966	5.53	5.51	5.02	5.61	5.52	5.37
1965	4.61	4.61	4.79	4.68	4.80	....
1964	4.55	4.55	4.61	4.56	4.51	4.74
1963	4.40	4.29	4.90	4.39	4.42	4.72

r Revised.
Source: Moody's Investors Service.

TABLE 77

MOODY'S AVERAGE YIELDS ON UTILITY BONDS AND STOCKS

BY MOODY'S BOND RATINGS AND STOCK QUALITY GROUPS

1973-1983

	BONDS					PREFERRED STOCKS			COMMON STOCKS					
	Over-all* Average	Rating							High Quality		Good Quality		Medium Quality	
End of Month		Aaa	Aa	A	Baa	aa High Quality	a Good Quality	baa Medium Quality	Yield	E/P Ratio†	Yield	E/P Ratio†	Yield	E/P Ratio†
1983														
December	13.46%	12.96%	13.15%	13.50%	14.22%	12.18%	12.61%	13.34%	8.83%	15.32%	10.43%	13.95%	11.97%	17.04%
September	13.20	12.66	12.87	13.27	13.98	11.70	12.15	12.72	9.03	15.26	10.17	14.00	10.86	14.94
June	13.13	12.32	12.63	13.54	14.04	11.34	12.05	12.47	9.37	15.11	10.75	14.29	10.84	14.29
March	13.26	12.23	12.66	13.82	14.34	11.17	11.79	12.51	9.35	14.77	10.19	14.14	11.13	14.41
1982														
December	13.50	12.30	12.68	14.37	14.65	11.63	12.20	13.26	9.22	15.20	10.56	14.77	11.43	14.79
September	14.39	12.97	13.76	15.31	15.52	12.84	13.49	14.11	9.64	15.91	11.30	15.78	12.15	16.17
June	16.37	15.55	16.04	16.56	17.32	14.30	14.69	15.67	10.08	14.13	11.96	15.95	13.03	17.33
March	16.19	15.15	15.62	16.64	17.35	14.44	14.81	15.48	10.09	16.74	11.53	15.96	12.74	16.72
1981														
December	16.23	14.88	15.90	16.68	17.45	14.97	15.47	15.83	11.01	16.19	11.72	14.43	13.53	17.58
September	17.56	16.74	17.43	17.84	18.21	14.68	15.28	16.01	11.52	16.74	12.01	14.73	13.96	18.07
June	15.49	14.47	15.06	15.84	16.60	13.75	14.15	15.02	10.94	15.78	11.70	14.05	12.88	16.95
March	14.86	13.96	14.61	15.17	15.69	13.35	13.72	14.57	11.71	16.51	12.20	15.21	13.30	17.63
1980														
December	14.11	13.18	13.91	14.14	15.20	13.15	14.01	14.56	11.49	15.65	12.36	16.86	13.27	17.01
September	13.68	12.91	13.49	13.74	14.58	12.02	12.92	13.76	11.37	15.46	11.83	16.01	12.77	15.71
June	12.04	11.30	11.84	12.22	12.81	10.59	10.97	12.05	10.24	13.41	10.65	14.36	11.52	13.22
March	14.57	13.35	14.57	14.96	15.41	13.09	14.74	15.22	12.15	15.50	12.52	18.27	13.93	19.11
1979														
December	11.85	11.09	11.62	11.97	12.71	10.86	11.49	12.75	10.57	15.89	11.00	15.61	12.23	14.86
September	10.39	9.75	10.10	10.62	11.08	9.60	10.34	10.97	9.81	14.82	10.37	15.29	10.92	13.71
June	9.90	9.39	9.73	10.04	10.45	9.03	9.55	10.49	9.18	13.87	9.83	14.24	10.31	12.93
March	10.02	9.60	9.90	10.06	10.51	9.10	9.63	10.33	9.13	13.73	9.66	14.16	10.04	13.04
1978														
December	9.82	9.47	9.65	9.84	10.31	8.94	9.65	10.48	9.38	13.19	9.89	13.89	10.01	12.77
September	9.23	8.91	9.15	9.29	9.57	8.43	8.82	9.62	8.37	11.80	8.88	12.82	9.15	11.99
June	9.36	8.99	9.24	9.46	9.73	8.84	9.39	9.81	8.35	11.87	8.95	12.74	9.20	12.41
March	8.97	8.61	8.80	8.99	9.47	8.35	8.79	9.24	8.35	12.46	8.82	12.66	8.86	11.39
1977														
December	8.75	8.39	8.63	8.77	9.21	8.14	8.59	9.03	7.55	12.32	8.04	12.30	8.43	11.27
September	8.47	8.12	8.37	8.48	8.89	7.95	8.32	8.87	7.29	12.49	7.83	11.96	8.25	11.84
June	8.46	8.07	8.29	8.52	8.97	8.03	8.47	8.92	7.23	12.34	7.57	11.45	8.23	11.86
March	8.70	8.26	8.55	8.77	9.22	8.21	8.75	9.01	7.32	13.01	7.74	12.04	8.68	12.77
1976														
December	8.54	8.05	8.37	8.59	9.16	8.28	8.80	9.15	7.18	11.36	7.79	11.73	8.23	11.17
September	8.87	8.57	8.65	8.81	9.45	8.58	9.04	9.45	7.39	11.31	7.82	11.44	8.60	11.26
June	9.36	8.87	9.08	9.43	10.06	8.92	9.46	9.79	8.40	12.72	8.84	12.99	9.28	12.15
March	9.34	8.67	9.07	9.58	10.04	8.92	9.52	9.73	8.13	11.99	8.51	13.08	9.11	12.15
1975														
December	9.79	8.94	9.44	10.03	10.75	9.41	10.39	10.67	7.47	10.75	7.85	11.04	9.61	14.18
September	10.01	9.25	9.66	10.24	10.90	9.78	10.71	11.11	8.34	12.05	8.78	12.30	11.01	15.64
June	9.79	8.99	9.37	9.97	10.84	9.34	10.88	11.12	7.22	10.54	8.07	11.03	10.18	13.25
March	9.72	8.99	9.29	9.83	10.75	9.31	10.48	11.00	8.23	12.19	9.31	12.96	12.46	14.89
1974														
December	10.13	9.08	9.47	10.44	11.52	10.17	11.20	11.72	8.88	13.61	10.81	17.95	15.51	18.49
September	10.28	9.54	10.12	10.64	10.80	10.41	10.94	11.70	9.05	14.22	10.62	17.60	14.00	16.91
June	9.22	8.71	9.06	9.50	9.60	9.32	9.64	10.00	8.79	13.47	10.16	15.86	12.16	15.48
March	8.56	8.25	8.48	8.60	8.92	8.06	8.61	8.74	7.51	11.51	7.99	11.70	8.66	11.19
1973														
December	8.21	7.90	8.10	8.24	8.59	8.04	8.35	8.24	8.06	11.27	8.24	11.19	7.75	10.91
September	8.07	7.76	7.92	8.08	8.52	7.72	8.04	8.08	6.84	9.52	6.92	10.32	7.08	9.97
June	7.73	7.53	7.63	7.78	7.97	7.53	7.62	7.75	6.88	9.65	6.93	10.19	7.26	10.38
March	7.67	7.44	7.52	7.69	8.01	7.39	7.53	7.60	6.42	9.34	6.69	9.83	6.72	9.80

Note: Yields shown under preferred stocks and common stocks represent averages of ten companies in each quality group.

**Average yield for 40 utility bonds, ten in each of the four top quality ratings shown.*

† Ratio in percent is obtained by dividing earnings per share by market price per share.

Source: Moody's Investors Service.

TABLE 78

MOODY'S 24 UTILITY COMMON STOCKS END-OF-MONTH AVERAGES

Year	Average	January	February	March	April	May	June	July	August	September	October	November	December
MARKET PRICE—WEIGHTED AVERAGE—$ PER SHARE													
1984	...	**71.08**	**68.08**	**66.74**	**65.95**	**66.09**	**66.49**	**68.12**	...	...	...	...	...
1983	74.04	72.53r	73.59	73.79	75.39	75.35	71.73	72.19	72.50	74.88	78.18	76.37	72.03
1982	63.56	57.95	60.16	60.77	63.15	63.23	61.15	59.16	66.63	66.10	66.83	67.34	70.26
1981	55.41	53.19	52.61	54.43	53.43	54.00	56.04	56.33	56.82	54.99	56.01	59.83	57.20
1980	54.80	54.57	49.93	50.16	57.14	58.51	60.08	57.83	56.40	54.51	52.63	51.44	54.42
1979	60.28	63.99	62.14	62.36	58.69	60.35	61.03	61.41	62.05	59.79	55,84	59.27	56.41
DIVIDEND RATE—WEIGHTED AVERAGE—$ PER SHARE													
1984	...	**8.11**	**8.12**	**8.14**	**8.17**	**8.25**	**8.30**	**8.31**	...	...	...	...	...
1983	7.87	7.73	7.75	7.76	7.80	7.86	7.86	7.87	7.87	7.97	7.97	7.98	8.00
1982	7.43	7.20	7.22	7.31	7.32	7.42	7.44	7.48	7.48	7.55	7.56	7.57	7.64
1981	6.99	6.83	6.85	6.85	6.87	6.91	6.96	6.99	6.99	7.13	7.13	7.15	7.16
1980	6.58	6.45	6.52	6.52	6.53	6.56	6.58	6.59	6.60	6.65	6.65	6.67	6.67
1979	6.22	6.07	6.07	6.16	6.16	6.17	6.20	6.22	6.26	6.31	6.32	6.33	6.34
YIELD—%													
1984	...	**11.41**	**11.93**	**12.20**	**12.39**	**12.48**	**12.48**	**12.20**	...	...	...	...	...
1983	10.63	10.66	10.53	10.52	10.35	10.43	10.96	10.90	10.86	10.64	10.19	10.45	11.11
1982	11.69	12.42	12.00	12.03	11.59	11.73	12.17	12.64	11.23	11.42	11.31	11.24	10.37
1981	12.62	12.84	13.02	12.59	12.86	12.80	12.42	12.41	12.30	12.97	12.73	11.95	12.52
1980	12.01	11.82	13.06	13.00	11.43	11.21	10.95	11.40	11.70	12.20	12.64	12.97	12.26
1979	10.34	9.49	9.77	9.88	10.50	10.22	10.16	10.13	10.09	10.55	11.32	10.68	11.24

EARNINGS—WEIGHTED AVERAGE—$ PER SHARE

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1984	**12.35**	...	...	...
1983	10.87	10.87	11.49	11.88
1982	10.52	10.80	11.06	10.90
1981	9.35	9.59	10.11	10.16
1980	8.69	8.58	8.75	8.98
1979	8.87	8.88	9.20	8.95

Note: Quarterly earnings are for the 12 months ended March 31, June 30, September 30 and December 31.
r Revised.
Source: Moody's Investors Service.

ECONOMICS AND OTHER

SECTION X

TABLE 82

CONSUMER PRICE INDEX, 1960-1983

1967 EQUALS 100

	All Items		Food and Beverages		Housing	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1983*	**298.4**	**3.2**	**284.4**	**2.2**	**323.1**	**2.7**
1982*	289.1	6.1	278.2	4.1	314.7	7.2
1981*	272.4	10.4	267.3	7.8	293.5	11.5
1980*	246.8	13.5	248.0	8.5	263.3	15.8
1979*	217.4	11.3	228.5	10.8	227.6	12.2
1978*	195.4	7.7	206.3	9.7	202.8	8.7
1977	181.5	6.5	188.0	6.0	186.5	6.8
1976	170.5	5.8	177.4	3.1	174.6	6.1
1975	161.2	9.1	172.1	8.4	164.5	10.6
1974	147.7	11.0	158.7	13.8	148.8	11.3
1973	133.1	6.2	139.5	13.2	133.7	4.4
1972	125.3	3.3	123.2	4.1	128.1	3.8
1971	121.3	4.3	118.3	3.1	123.4	4.4
1970	116.3	5.9	114.7	5.4	118.2	7.1
1969	109.8	5.4	108.8	5.0	110.4	6.2
1968	104.2	4.2	103.6	3.6	104.0	4.0
1967	100.0	2.9	100.0	...	100.0	2.9
1966	97.2	2.9	...	...	97.2	2.4
1965	94.5	1.7	...	...	94.9	1.2
1964	92.9	1.3	...	...	93.8	1.2
1963	91.7	1.2	...	...	92.7	1.1
1962	90.6	1.1	...	...	91.7	0.9
1961	89.6	1.0	...	...	90.9	0.8
1960	88.7	1.6	...	...	90.2	1.8

	Transportation		Gas and Electricity		Electricity	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1983*	**298.4**	**2.4**	**428.7**	**8.9**	**330.6**	**3.2**
1982*	291.5	4.1	393.8	13.8	320.3	9.9
1981*	280.0	12.1	345.9	14.6	291.5	15.0
1980*	249.7	17.8	301.8	17.1	253.4	15.7
1979*	212.0	14.3	257.8	10.8	219.1	7.7
1978*	185.5	4.7	232.6	9.0	203.4	7.4
1977	177.2	7.1	213.4	12.9	189.3	6.6
1976	165.5	9.9	189.0	11.4	177.6	6.3
1975	150.6	9.4	169.6	16.3	167.0	13.2
1974	137.7	11.2	145.8	15.3	147.5	18.1
1973	123.8	3.3	126.4	4.9	124.9	5.0
1972	119.9	1.1	120.5	5.1	118.9	5.0
1971	118.6	5.2	114.7	6.9	113.2	5.6
1970	112.7	5.1	107.3	4.4	106.2	3.3
1969	107.2	3.9	102.8	1.9	102.8	1.9
1968	103.2	3.2	100.9	0.9	100.9	0.9
1967	100.0	2.9	100.0	0.4	100.0	0.9
1966	97.2	1.4	99.6	0.2	99.1	0.0
1965	95.9	1.7	99.4	0.0	99.1	(0.5)
1964	94.3	1.4	99.4	0.0	99.6	(0.5)
1963	93.0	0.5	99.4	0.0	100.1	0.0
1962	92.5	2.1	99.4	0.0	100.1	0.0
1961	90.6	1.1	99.4	0.8	100.1	0.3
1960	89.6	0.0	98.6	4.1	99.8	1.3

**Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.*

( ) Denotes negative figure.

Source: U.S. Bureau of Labor Statistics.

TABLE 83

RESIDENTIAL ELECTRICITY AND CONSUMER PRICE INDEX TOTAL ELECTRIC UTILITY INDUSTRY*

Year	Average Revenue per Residential kWh Used	Average Rate per kWh Based on Average of Typical Bills in Cities** Price per kWh for Monthly Use of: (Energy Information Administration)					U.S. Bureau of Labor Statistics Index Numbers Based on 1967=100†	
		100 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	Electricity	Consumer Price Index
1983	**6.83¢p**	....	....	....	....	....	**330.6**	**298.4**
1982	6.44r	....	8.29¢	7.67¢	7.03¢	7.00¢	320.3	289.1
1981	5.80	....	7.93r	7.39r	6.68r	6.64r	291.5	272.4
1980	5.12	....	7.10	6.52	5.87	5.82	253.4	246.8
1979	4.43	....	6.11	5.56	4.92	4.87	219.1	217.4
1978	4.03	7.10¢	5.54	4.61	4.36	4.31	203.4	195.4
1977	3.78	6.87	5.39	4.44	4.16	4.10	189.3	181.5
1976	3.45	6.54	5.14	4.17	3.90	3.82	177.6	170.5
1975	3.21	6.15	4.82	3.85	3.57	3.49	167.0	161.2
1974	2.83	5.89	4.60	3.59	3.30	3.23	147.5	147.7
1973	2.38	4.99	3.79	2.82	2.55	2.49	124.9	133.1
1972	2.29	4.65	3.47	2.51	2.26	2.19	118.9	125.3
1971	2.19	4.51	3.34	2.40	2.15	2.07	113.2	121.3
1970	2.10	4.25	3.14	2.23	2.00	1.92	106.2	116.3
1969	2.09	4.09	3.00	2.10	1.90	1.83	102.8	109.8
1968	2.12	4.05	2.96	2.06	1.86	1.80	100.9	104.2
1967	2.17	4.03	2.95	2.07	1.89	1.83	100.0	100.0
1966	2.20	4.03	2.95	2.07	1.89	1.83	99.1	97.2
1965	2.25	4.00	2.94	2.07	1.89	1.83	99.1	94.5
1964	2.31	4.02	2.95	2.08	1.91	1.86	99.6	92.9
1963	2.37	4.03	2.97	2.12	1.93	1.89	100.1	91.7

**Alaska and Hawaii included since 1964.*

***As determined by the Energy Information Administration in its "Typical Electric Bills." The figures cover rate schedules as of December 31 in all cities with populations of 2,500 or more.*

†"Index numbers" are percentages of the base year 1967. For a description of the components and characteristics of this Index, see BLS Handbook of Methods, Bulletin #1711 for 1971. Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.

p Preliminary. r Revised.

TABLE 84

PRODUCER PRICE INDEX – ALL ITEMS AND SELECTED INDUSTRIAL COMMODITIES

1967 EQUALS 100

	All Items		Metals and Metal Products		Machinery and Equipment		Furniture and Household Durables		Fuels and Related Products and Power	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1983	**303.1**	**1.3**	**307.1**	**1.8**	**286.4**	**2.8**	**213.9**	**3.4**	**665.9**	**(4.0)**
1982	299.3	2.0	301.8	0.5	278.7	5.9	206.8	4.2	693.4	(0.1)
1981	293.4	9.2	300.4	4.9	263.1	9.7	198.4	5.7	694.4	21.0
1980	268.8	14.1	286.4	10.5	239.8	12.1	187.7	9.6	574.0	40.7
1979	235.6	12.6	259.3	14.2	213.9	9.1	171.3	6.8	408.1	26.5
1978	209.3	7.8	227.1	8.7	196.1	7.9	160.4	5.9	322.5	6.7
1977	194.2	6.1	209.0	6.7	181.7	6.3	151.5	4.1	302.2	13.8
1976	183.0	4.6	195.9	5.5	171.0	5.9	145.6	4.2	265.6	8.4
1975	174.9	9.2	185.6	8.0	161.4	15.8	139.7	9.2	245.1	17.7
1974	160.1	18.9	171.9	29.4	139.4	14.5	127.9	11.0	208.3	55.1
1973	134.7	13.1	132.8	7.5	121.7	3.2	115.2	3.4	134.3	13.8
1972	119.1	4.5	123.5	4.0	117.9	2.1	111.4	1.3	118.6	3.0
1971	114.0	3.3	118.7	1.8	115.5	3.7	110.0	2.3	115.2	8.5
1970	110.4	3.7	116.6	7.5	111.4	4.6	107.5	2.5	106.2	5.3
1969	106.5	3.9	108.5	5.8	106.5	3.2	104.9	2.0	100.9	2.0
1968	102.5	2.5	102.6	2.6	103.2	3.2	102.8	2.8	98.9	(1.1)
1967	100.0	0.1	100.0	1.2	100.0	3.3	100.0	2.0	100.0	2.2
1966	99.8	3.3	98.8	2.5	96.8	3.1	98.0	1.1	97.8	2.4
1965	96.6	2.0	96.4	2.8	93.9	1.1	96.9	(0.5)	95.5	1.9
1964	94.7	0.2	93.8	2.7	92.8	0.7	97.4	0.4	93.7	(2.7)
1963	94.5	(0.3)	91.3	0.1	92.2	0.1	97.0	(0.7)	96.3	(0.4)

	Coal		Gas Fuels		Electric Power		Crude Petroleum		Petroleum Products, Refined	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1983	**536.8**	**0.3**	**1,147.9**	**8.2**	**418.0**	**2.8**	**681.5**	**(7.1)**	**686.4**	**(9.9)**
1982	535.3	7.6	1,061.2	12.9	406.6	10.9	733.5	(8.7)	761.5	(5.5)
1981	497.3	6.4	939.8	23.5	366.8	14.1	803.6	44.4	805.8	19.4
1980	467.3	3.6	760.7	39.8	321.6	18.7	556.4	47.8	674.7	51.7
1979	450.9	4.9	544.1	26.9	270.9	8.1	376.5	25.4	444.8	38.6
1978	430.0	10.4	428.7	10.5	250.6	7.6	300.1	9.4	321.0	4.2
1977	389.4	5.6	387.8	35.2	232.9	12.1	274.2	8.1	308.2	11.4
1976	368.7	(4.4)	286.8	32.3	207.6	7.4	253.6	3.2	276.6	7.4
1975	385.8	16.1	216.7	33.6	193.4	18.6	245.7	16.0	257.5	15.3
1974	332.4	52.4	162.2	28.0	163.1	26.1	211.8	68.1	223.4	73.5
1973	218.1	12.5	126.7	11.0	129.3	6.4	126.0	10.7	128.7	18.2
1972	193.8	6.5	114.1	5.2	121.5	4.6	113.8	(0.7)	108.9	1.6
1971	182.0	21.1	108.5	4.7	116.2	9.7	114.6	8.0	107.2	6.1
1970	150.3	33.5	103.6	11.0	105.9	4.0	106.1	0.9	101.0	1.4
1969	112.6	8.6	93.3	0.5	101.8	0.9	105.2	4.4	99.6	1.5
1968	103.7	3.7	92.7	(7.3)	100.9	0.9	100.8	0.8	98.1	(1.9)
1967	100.0	4.7	100.0	3.5	100.0	0.4	100.0	1.1	100.0	2.7
1966	95.5	2.2	96.7	4.2	99.6	(0.5)	98.9	0.7	97.4	3.8
1965	93.4	(0.4)	92.8	2.3	100.1	(0.3)	98.2	(0.1)	93.8	3.4
1964	93.8	0.0	90.7	(1.2)	100.4	(0.9)	98.3	(0.4)	90.7	(4.6)
1963	93.8	0.1	91.8	2.9	101.3	(0.8)	98.7	(0.4)	95.1	(1.0)

( ) Denotes negative figure.
Source: U.S. Bureau of Labor Statistics.

TABLE 85

COST TRENDS OF ELECTRIC LIGHT AND POWER CONSTRUCTION*

BY GEOGRAPHIC DIVISIONS—1963-1984
1973 EQUALS 100

Date	North Atlantic	South Atlantic	North Central	South Central	Plateau	Pacific
Jan. 1, 1984	233	233	236	243	244	255
July 1, 1983	231	233	236	242	245	254
Jan. 1, 1983	226	230	231	239	240	250
July 1, 1982	222	227	229	234	236	247
Jan. 1, 1982	218	222	226r	231	232	240
July 1, 1981	209	218	215	222	222	230
Jan. 1, 1981	203	210	208	214	216	225
July 1, 1980	193	197	196	203	202	209
Jan. 1, 1980	186	191	190	195	197	200
July 1, 1979	178	182	181	187	188	192
Jan. 1, 1979	168	174	173	178	179	181
July 1, 1978	161	165	165	169	170	173
Jan. 1, 1978	156	161	159	164	166	168
July 1, 1977	154	158	157	162	163	165
Jan. 1, 1977	147	152	149	155	155	157
July 1, 1976	145	148	146	151	152	151
Jan. 1, 1976	140	144	141	146	145	146
July 1, 1975	138	140	140	142	143	141
Jan. 1, 1975	130	133	132	134	133	132
July 1, 1974	119	120	120	122	120	120
Jan. 1, 1974	105	105	104	105	105	105
July 1, 1973	100	99	100	100	100	100
Jan. 1, 1973	95	96	96	95	96	96
July 1, 1972	93	94	94	93	94	94
Jan. 1, 1972	92	91	94	91	92	93
July 1, 1971	87	88	90	89	90	88
Jan. 1, 1971	83	84	86	85	85	85
July 1, 1970	81	81	84	83	82	83
Jan. 1, 1970	77	79	80	80	80	80
July 1, 1969	74	76	77	77	76	77
Jan. 1, 1969	72	73	74	74	74	74
July 1, 1968	70	70	71	72	72	73
Jan. 1, 1968	69	70	71	72	72	72
July 1, 1967	68	68	69	70	71	71
Jan. 1, 1967	67	67	67	68	68	69
July 1, 1966	66	66	66	67	67	68
Jan. 1, 1966	64	65	65	66	66	67
July 1, 1965	64	64	65	65	66	66
Jan. 1, 1965	63	63	63	64	65	65
July 1, 1964	62	62	63	63	64	64
Jan. 1, 1964	61	62	62	62	63	63
July 1, 1963	60	61	61	61	62	62
Jan. 1, 1963	60	60	61	61	63	62

r Revised.

* *Index numbers shown are a composite of over 50 material and labor items included in the Handy-Whitman Index service of cost indexes of construction and equipment, all steam.*

Source: Handy-Whitman Index of Public Utility Construction Costs. Published by courtesy of Whitman, Requardt and Associates, Baltimore, Maryland, 21202.

TABLE 86

COST OF INDUSTRIAL PURCHASED ELECTRIC POWER AS A PERCENT OF VALUE OF PRODUCT SHIPMENT

U.S. AVERAGE 1976—1981

Standard Industrial Classification	Industry	1981	1980	1979	1978	1977	1976
20	Food and Kindred Products	0.8	0.7	0.6	0.7	0.6	0.6
21	Tobacco Manfuacturers	0.4	0.5	0.4	0.4	0.4	0.3
22	Textile Mill Products	1.9	1.8	1.8	1.8	1.7	1.7
23	Apparel and Other Textile Products	0.7	0.7	0.6	0.7	0.5	0.5
24	Lumber and Wood Products	1.3	1.1	1.0	1.0	1.0	1.0
25	Furniture and Fixtures	0.9	0.8	0.8	0.8	0.8	0.8
26	Paper and Allied Products	3.6	3.3	3.1	3.1	3.0	2.7
27	Printing and Publishing	0.7	0.7	0.6	0.7	0.6	0.6
28	Chemicals and Allied Products	3.0	2.8	2.8	2.8	2.7	2.6
29	Petroleum and Coal Products	0.7	0.7	0.7	0.8	0.8	0.7
30	Rubber and Miscellaneous Plastics Products	2.0	1.9	1.7	1.7	1.6	1.5
31	Leather and Leather Products	0.7	0.7	0.6	0.6	0.7	0.6
32	Stone, Clay and Glass Products	2.7	2.5	2.3	2.3	2.3	2.2
33	Primary Metal Industries	3.8	3.5	3.2	3.2	3.0	2.7
34	Fabricated Metal Products	1.1	1.0	0.9	0.9	0.9	0.9
35	Machinery, Except Electrical	0.8	0.7	0.7	0.7	0.7	0.7
36	Electric and Electronic Equipment	1.0	0.9	0.8	0.8	0.8	0.8
37	Transportation Equipment	0.7	0.7	0.5	0.5	0.5	0.5
38	Instruments and Related Products	0.7	0.6	0.6	0.6	0.6	0.6
39	Miscellaneous Manufacturing Industries	0.8	0.7	0.7	0.7	0.7	0.7
	Total Manufacturing	1.4	1.4	1.3	1.2	1.2	1.2

Source: U.S. Department of Commerce, Annual Survey of Manufactures. Fuels and Electric Energy Consumed, and Value of Product Shipments.

TABLE 87

WEIGHTED AVERAGE ELECTRIC BILLS (DOLLARS)

BY CENSUS DIVISION AND CERTAIN CLASS OF SERVICE

1982–1983

Residential Service

Division	January 1, 1983 250 kWh	500 kWh	750 kWh	1,000 kWh	2,500 kWh	January 1, 1982r 250 kWh	500 kWh	750 kWh	1,000 kWh	2,500 kWh
New England	$24.48	$44.64	$61.47	$81.56	$191.17	$24.03	$43.65	$58.62	$ 77.57	$184.91
Middle Atlantic	29.18	52.11	70.58	94.03	224.79	27.90	51.20	67.79	90.35	215.92
East North Central	19.92	37.47	49.80	66.22	136.98	17.72	33.24	44.20	58.92	123.61
West North Central	17.46	32.37	44.44	57.68	118.71	17.35	30.96	42.19	54.79	112.20
South Atlantic	19.75	34.92	48.83	63.41	146.72	19.19	33.75	47.20	61.14	141.44
East South Central	16.36	28.93	40.98	52.77	120.45	14.71	26.37	37.48	49.00	113.42
West South Central	19.76	34.31	47.12	61.11	131.46	17.91	31.32	42.13	54.91	118.14
Mountain	18.92	33.82	47.18	61.16	138.61	18.53	32.54	44.61	58.00	131.23
Pacific	15.25	33.67	48.26	66.92	169.20	16.07	35.72	49.36	67.54	187.15
Alaska & Hawaii	26.41	47.71	69.00	90.09	216.94	29.74	54.31	78.63	102.97	249.22
U.S. Average	$20.72	$38.35	$52.74	$69.96	$160.22	$19.82	$36.96	$50.07	$ 66.39	$155.69

Commercial Service

	January 1, 1983 12 kW 1,500 kWh	30 kW 6,000 kWh	40 kW 10,000 kWh	50 kW 12,500 kWh	100 kW 30,000 kWh	January 1, 1982r 12 kW 1,500 kWh	30 kW 6,000 kWh	40 kW 10,000 kWh	50 kW 12,500 kWh	100 kW 30,000 kWh
New England	$178.58	$594.96	$ 907.14	$1,118.18	$2,461.05	$177.67	$588.21	$ 897.94	$1,103.95	$2,445.71
Middle Atlantic	248.84	787.28	1,197.97	1,495.05	3,341.70	238.42	755.60	1,149.70	1,434.53	3,204.90
East North Central	145.27	504.18	781.26	969.82	2,169.41	131.53	465.18	717.19	887.77	1,979.56
West North Central	112.76	400.48	618.59	764.43	1,684.14	109.21	389.02	599.67	741.22	1,630.04
South Atlantic	120.41	435.81	683.08	846.86	1,890.01	119.11	420.38	656.33	813.06	1,817.17
East South Central	104.03	377.04	601.35	748.53	1,699.69	96.54	351.37	560.82	697.82	1,585.83
West South Central	122.57	427.57	661.23	817.35	1,812.26	111.92	395.19	610.99	753.71	1,649.95
Mountain	112.53	448.03	681.44	836.71	1,817.67	111.63	438.75	668.93	822.87	1,793.96
Pacific	117.11	454.04	727.96	906.63	2,116.97	126.85	473.92	766.02	945.59	2,208.93
Alaska & Hawaii	147.32	556.51	920.24	1,147.57	2,738.88	186.02	649.50	1,051.80	1,309.29	3,079.44
U.S. Average	$149.22	$518.86	$ 804.73	$ 999.28	$2,244.00	$144.89	$502.03	$ 779.08	$ 965.09	$2,165.65

Industrial Service

	January 1, 1983 150 kW 30,000 kWh	300 kW 60,000 kWh	1,000 kW 200,000 kWh	5,000 kW 1,500,000 kWh	January 1, 1982r 150 kW 30,000 kWh	300 kW 60,000 kWh	1,000 kW 200,000 kWh	5,000 kW 1,500,000 kWh
New England	$2,548	$4,912	$15,662	$106,173	$2,535	$4,877	$15,606	$106,709
Middle Atlantic	3,628	7,094	22,914	145,966	3,475	6,838	21,759	138,711
East North Central	2,406	4,661	15,158	92,394	2,161	4,167	13,502	83,190
West North Central	1,834	3,575	11,321	70,976	1,768	3,446	10,853	68,030
South Atlantic	2,112	4,186	13,672	81,347	2,012	3,980	12,881	78,427
East South Central	2,001	3,960	12,296	75,661	1,855	3,647	11,520	69,990
West South Central	2,012	3,923	12,181	78,479	1,845	3,603	11,368	72,613
Mountain	2,062	4,010	12,453	78,241	1,990	3,847	11,895	74,392
Pacific	2,231	4,412	14,677	101,739	2,320	4,589	15,526	108,456
Alaska & Hawaii	2,739	5,290	17,067	113,827	3,124	6,062	19,565	132,490
U.S. Average	$2,449	$4,789	$15,445	$ 98,783	$2,366	$4,630	$14,931	$ 96,152

r Revised.

Source: Energy Information Administration, Typical Electric Bills.

TABLE 88

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE—TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1983	Circuit Miles 1982r	Circuit Miles 1981r
Total United States*	**590,593**	**579,522**	**573,069**
Maine	3,736	3,662	3,662
New Hampshire	2,267	2,214	2,211
Vermont	2,025	1,979	1,974
Massachusetts	5,258	5,254	5,182
Rhode Island	703	700	698
Connecticut	1,736	1,718	1,708
New England	**15,725**	**15,527**	**15,435**
New York	20,303	20,092	19,943
New Jersey	6,269	6,244	6,210
Pennsylvania	19,484	19,294	18,678
Middle Atlantic	**46,056**	**45,630**	**44,831**
Ohio	21,385	21,340	21,097
Indiana	14,776	14,610	14,546
Illinois	16,369	16,404	16,289
Michigan	19,095	19,000	18,861
Wisconsin	9,598	9,578	9,536
East North Central	**81,223**	**80,932**	**80,329**
Minnesota	10,355	10,371	10,353
Iowa	11,203	11,177	11,114
Missouri	11,208	11,624	11,568
North Dakota	6,963	6,903	6,885
South Dakota	6,826	6,811	6,664
Nebraska	12,312	12,148	12,085
Kansas	10,040	9,902	9,865
West North Central	**68,907**	**68,936**	**68,534**
Delaware	2,210	2,220	2,220
Maryland	8,649	8,599	8,620
District of Columbia	12	12	12
Virginia	11,536	11,448	11,320
West Virginia	7,449	7,203	7,143
North Carolina	22,610	22,291	21,981
South Carolina	19,267	18,835	18,353
Georgia	20,774	20,492	21,619
Florida	14,834	14,817	14,462
South Atlantic	**107,341**	**105,917**	**105,730**
Kentucky	12,410	12,293	12,778
Tennessee	26,441	23,362	23,032
Alabama	13,672	13,527	13,412
Mississippi	15,569	12,309	12,053
East South Central	**68,092**	**61,491**	**61,275**
Arkansas	6,269	6,209	6,153
Louisiana	11,127	10,883	10,815
Oklahoma	11,233	11,205	10,189
Texas	43,702	43,412	42,859
West South Central	**72,331**	**71,709**	**70,016**
Montana	10,285	9,900	9,802
Idaho	11,455	11,289	11,010
Wyoming	4,942	4,978	4,870
Colorado	6,947	6,887	6,745
New Mexico	6,454	6,072	5,397
Arizona	11,072	11,250	11,274
Utah	5,784	5,769	5,593
Nevada	6,476	6,373	6,523
Mountain	**63,415**	**62,518**	**61,214**
Washington	16,918	16,775	16,202
Oregon	11,107	10,887	10,425
California	38,012	37,751	37,622
Pacific	**66,037**	**65,413**	**64,249**
Alaska	80	70	85
Hawaii	1,386	1,379	1,371
Alaska & Hawaii	**1,466**	**1,449**	**1,456**

Nominal Voltage	Circuit Miles 1983	Circuit Miles 1982r	Circuit Miles 1981r
Total	**590,593**	**579,522**	**573,069**
22,000- 30,000	77,735	75,676	71,834
31,000- 40,000	63,415	63,360	62,498
41,000- 50,000	40,270	36,515	37,227
51,000- 70,000	102,217	102,854	104,020
71,000-131,000	94,373	91,825	91,463
132,000-143,000	64,261	64,024	63,653
144,000-188,000	24,507	23,842	22,964
189,000-253,000	60,742	60,473	60,378
254,000-400,000	39,669	38,507	36,842
401,000-600,000	20,732	19,815	19,559
601,000-800,000	2,672	2,631	2,631

**Does not include the following miles of line operated by REA Co-operatives: 1983—69,200; 1982—68,300; 1981—67,300*

r Revised

TABLE 89

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE—INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1983	1982r	1981r
Total United States	**466,959**	**463,638**	**460,844**
Maine	3,711	3,625	3,625
New Hampshire	2,267	2,214	2,211
Vermont	1,993	1,948	1,943
Massachusetts	5,229	5,227	5,156
Rhode Island	703	700	698
Connecticut	1,702	1,684	1,674
New England	**15,605**	**15,398**	**15,307**
New York	19,176	18,964	18,779
New Jersey	6,259	6,234	6,200
Pennsylvania	19,484	19,294	18,678
Middle Atlantic	**44,919**	**44,492**	**43,657**
Ohio	21,329	21,284	21,041
Indiana	14,656	14,499	14,435
Illinois	16,160	16,194	16,080
Michigan	19,016	18,920	18,781
Wisconsin	9,522	9,524	9,482
East North Central	**80,683**	**80,421**	**79,819**
Minnesota	10,015	10,034	10,013
Iowa	10,632	10,598	10,554
Missouri	10,104	10,641	10,585
North Dakota	4,940	4,889	4,871
South Dakota	3,430	3,428	3,403
Nebraska	94	94	94
Kansas	9,915	9,777	9,740
West North Central	**49,130**	**49,461**	**49,260**
Delaware	2,181	2,191	2,191
Maryland	8,646	8,596	8,617
District of Columbia	12	12	12
Virginia	10,709	10,633	10,490
West Virginia	7,449	7,203	7,143
North Carolina	22,035	21,767	21,489
South Carolina	15,976	15,631	15,515
Georgia	15,880	15,805	17,265
Florida	11,412	11,324	11,253
South Atlantic	**94,300**	**93,162**	**93,975**
Kentucky	7,540	7,519	8,012
Tennessee	239	237	237
Alabama	9,596	9,565	9,478
Mississippi	9,344	9,266	9,184
East South Central	**26,719**	**26,587**	**26,911**
Arkansas	6,209	6,149	6,093
Louisiana	10,948	10,694	10,602
Oklahoma	8,084	8,056	8,037
Texas	39,466	39,307	38,878
West South Central	**64,707**	**64,206**	**63,610**
Montana	8,104	7,706	7,631
Idaho	10,677	10,626	10,347
Wyoming	2,949	2,943	2,864
Colorado	4,416	4,417	4,339
New Mexico	6,273	5,887	5,218
Arizona	6,671	6,823	6,650
Utah	5,598	5,585	5,418
Nevada	4,546	4,443	4,589
Mountain	**49,234**	**48,430**	**47,056**
Washington	3,697	3,719	3,583
Oregon	5,763	5,763	5,759
California	30,814	30,618	30,534
Pacific	**40,274**	**40,100**	**39,876**
Alaska	2	2	2
Hawaii	1,386	1,379	1,371
Alaska & Hawaii	**1,388**	**1,381**	**1,373**

Nominal Voltage	Circuit Miles 1983	1982r	1981r
Total	**466,959**	**463,638**	**460,844**
22,000- 30,000	51,108	50,392	49,846
31,000- 40,000	55,996	55,960	55,108
41,000- 50,000	33,070	33,081	33,090
51,000- 70,000	85,115	86,862	87,108
71,000-131,000	75,791	73,533	73,454
132,000-143,000	60,606	60,588	60,144
144,000-188,000	9,703	9,739	9,552
189,000-253,000	45,472	45,114	45,610
254,000-400 000	34,569	33,630	32,295
401,000-600,000	13,566	12,818	12,716
601,000-800,000	1,963	1,921	1,921

r Revised

TABLE 90

AVERAGE NUMBER OF EMPLOYEES INVESTOR-OWNED ELECTRIC UTILITIES

ELECTRIC DEPARTMENT

Year	Operation and Maintenance	Construction	Total
1983	**397,800**	**115,400**	**513,200**
1982	388,400	116,700	505,100
1981	375,900	114,600	490,500
1980	368,400	108,200	476,600
1979	356,200	106,800	463,000
1978	341,500	103,000	444,500
1977	326,800	99,700	426,500
1976	317,600	99,100	416,700
1975	310,500	101,000	411,500
1974	311,700	107,400	419,100
1973	307,200	107,900	415,100
1972	299,200	102,300	401,500
1971	295 200	98,500	393,700
1970	290,200	94,700	384,900
1969	282,600	89,900	372,500
1968	279,300	86,000	365,300
1967	275,500	81,900	357,400
1966	271,000	78,100	349,100
1965	268,400	77,000	345,400
1964	268,600	72,900	341,500
1963	268,700	70,800	339,500

GLOSSARY

Allowance for Funds Used During Construction (AFUDC): An amount recorded by a company to represent the cost of those funds used to finance construction work in progress. See Glossary of Electric Utility Terms.

Capability: The maximum load which a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time, without exceeding approved limits of temperature and stress.

Capacity: The load for which a generating unit, generating station, or other electrical apparatus is rated either by the user or by the manufacturer. See also Name Plate Rating.

Capital Expenditures: Cost of construction of new utility plant (additions, betterments, and replacements) and expenditures for the purchase or acquisition of existing utility plant facilities.

Capitalization: The total of: Long-Term Debt, Preferred Stock and Common Stock Equity. For balance sheet presentation, several modifications are sometimes made: current maturities of Long-Term Debt are not included in the Capitalization section, but Short-Term Debt (with an original maturity of less than one year) which will be refinanced by Long-Term Debt is sometimes included.

Class of Service: A group of customers with similar characteristics (i.e., residential, commercial, industrial, sales for resale, etc.) which are identified for the purpose of setting a rate for electric service.

Construction Expenditures: Expenditures (may or may not include Interest and/or Other Overheads Charged to Construction) for construction including additions to and betterment, renewals, and replacements of utility plant during a specific period, but not money spent for maintenance or for the acquisition of existing utility systems or segments.

Consumer Price Index (CPI): This index is issued by the U.S. Department of Labor, Bureau of Labor Statistics, as a measure of average changes in the retail prices of goods and services usually bought by two groups. The first group consists of the families of wage earners and clerical workers living in cities. The second group consists of all urban consumers.

Customers, Average: The arithmetic averages of month-end customers in each of 12 consecutive months. For those billed other than every month, the number of such customers is adjusted to a 12-month basis (e.g., for bimonthly billing the number of customers billed, or counted, in each month is multiplied by two and the resultant averaged for the 12-month period).

Demand: The rate at which electric energy is delivered to or by a system, part of a system, or a piece of equipment. It is expressed in kilowatts, kilovoltamperes or other suitable unit at a given instant or averaged over any designated period of time. The primary source of "Demand" is the power-consuming equipment of the customers.

Electric Utility Industry: All enterprises engaged in the production and/or distribution of electricity for use by the public, including:

Investor-Owned Electric Utilities organized as tax-paying business usually financed by the sale of securities, in the free market.

Cooperatively-Owned Utilities A group of persons who have organized a joint venture for the purpose of supplying electric energy to a specified area.

Government-Owned includes municipal systems, federal agencies, state projects, and public power districts.

and, where the data are not separable, those industrial plants contributing to the public supply.

Expenses, Operating: A group of expenses applicable to utility operations composed of: Operation Expense, Maintenance Expense, Provisions for Depreciation and Amortization, Taxes Other Than Income Taxes, Income Taxes, Provisions for Deferred Income Taxes, Income Taxes Deferred in Prior Years—Credit, and Investment Tax Credit Adjustments—Net.

Fuels, Fossil: Any naturally occurring fuel of an organic nature, such as coal, crude oil, and natural gas.

Industrial Electric Power: Electric generating stations operated by Industrial establishments.

Electric Generation—Net: Gross generation less kilowatthours consumed for generation station use.

Load Factor: The ratio of the average load in kilowatts supplied during a designated period to the peak or maximum load in kilowatts occurring in that period. Load factor, in percent, also may be derived by multiplying the kilowatthours in the period by 100 and dividing by the product of the maximum demand in kilowatts and the number of hours in the period.

Margin, Percent Capacity: The difference between capability and peak load divided by the capability times 100. Should not be confused with Percent Reserve Margin in which the difference is divided by the peak load.

Name Plate Rating: The full-load continuous rating of a generator, prime mover or other electrical equipment under specified conditions as designated by the manufacturer.

Output, Weekly Electric: The sum of the system output (defined herein) of all investor-owned utilities, rural electric cooperatives, and government power projects in the contiguous United States adjusted for all inter-utility deliveries.

Peak Load: See Demand—The greatest demand which occurs during a specified period of time.

Prime Mover: The engine, turbine, water wheel, or similar machine which drives an electric generator.

Producers Price Index: Formerly known as the wholesale price index, this index is the oldest continuous statistical series published by BLS. It is designed to measure average changes in prices of all commodities, at all stages of processing, produced or imported for sale in primary markets in the U.S.

Revenue, Average: Revenue from the sale of electricity (exclusive or forfeited discounts and penalties) for a particular class of service divided by the corresponding number of kilowatthours sold.

Utility Plant, Electric: All equipment used for the generation, transmission, and distribution of electricity, or an account in which record is kept of this equipment. Includes plant in service, purchased or sold, in process of reclassification, leased to others, held for future use, and under construction, and acquisition adjustments and adjustment accounts, without deduction of Accumulated Provision for Depreciation and Amortization.

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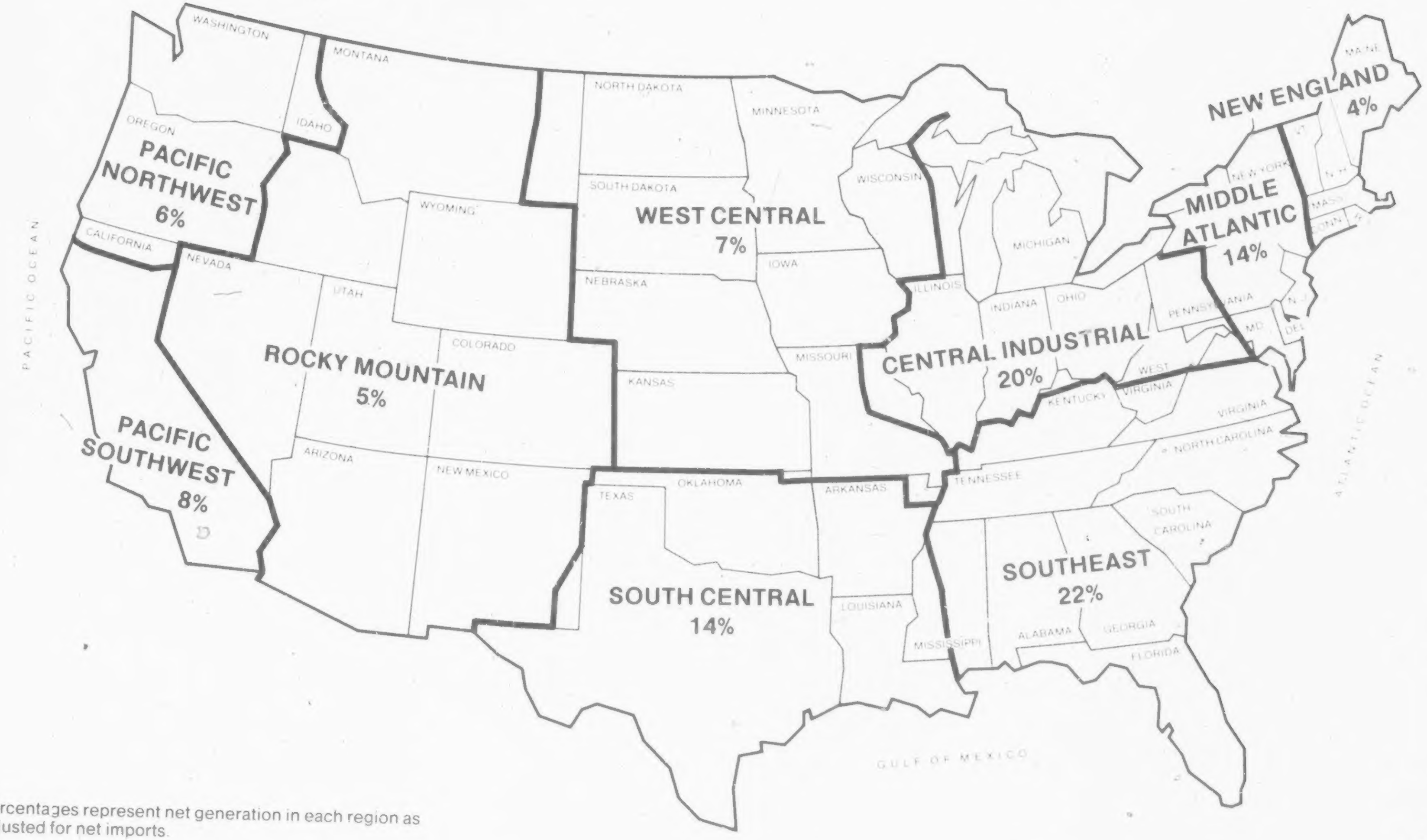
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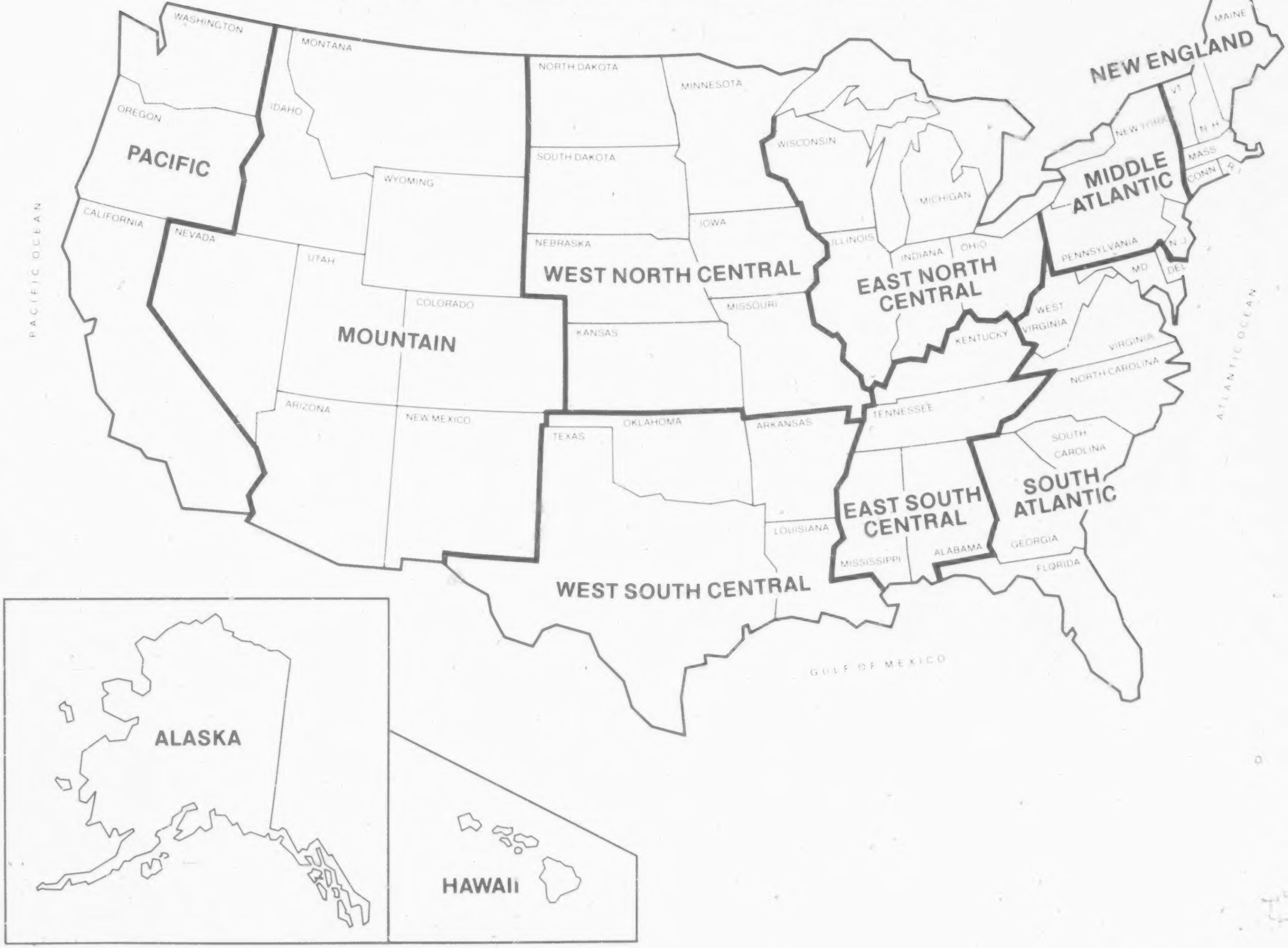

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